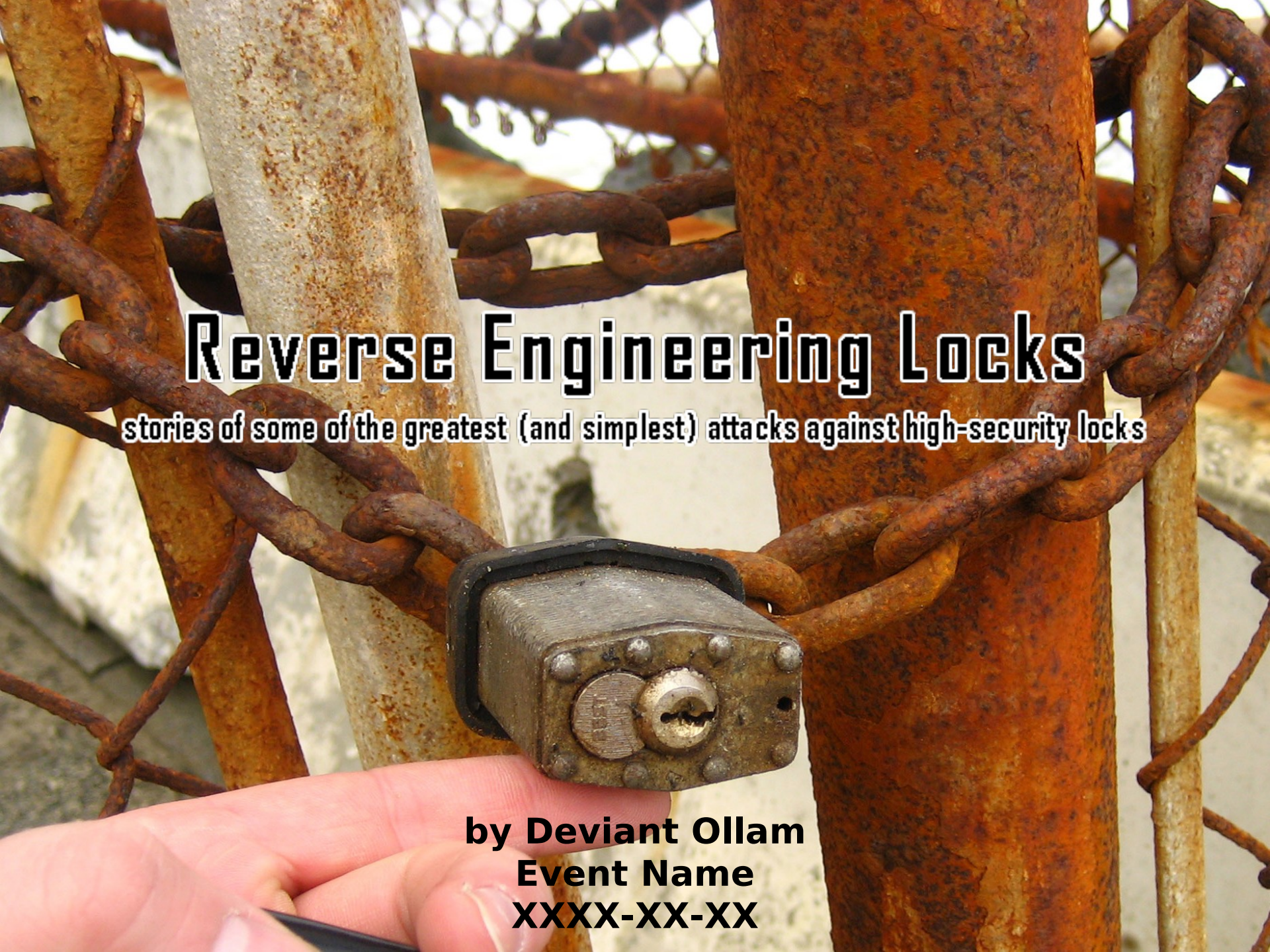


Reverse Engineering Locks

stories of some of the greatest (and simplest) attacks against high-security locks

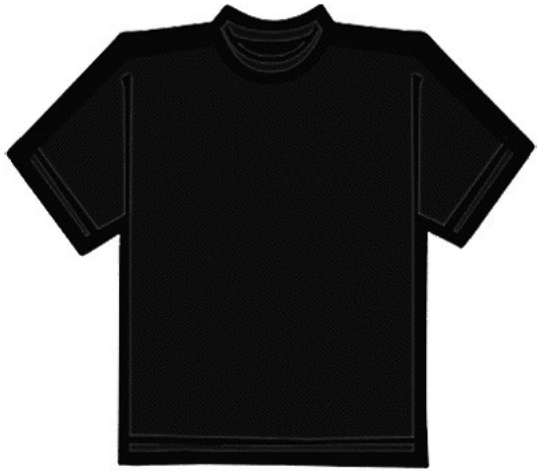
by Deviant Ollam

Event Name

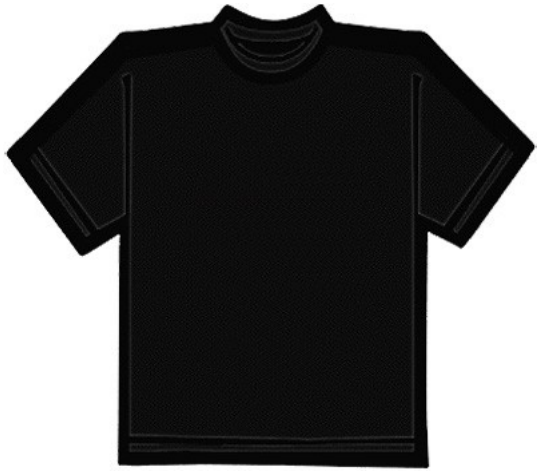
XXXX-XX-XX

Who am i ?

Who am i ?



Who am i ?



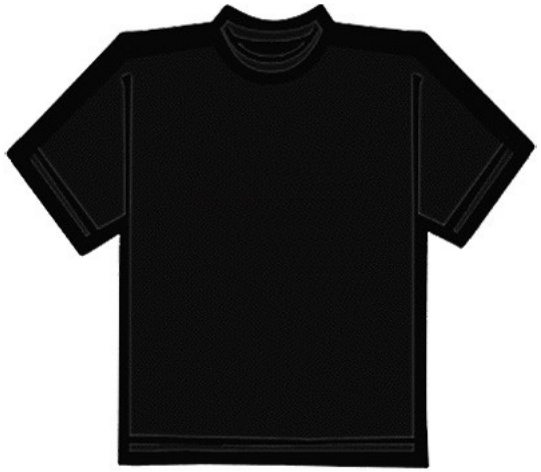
THE CORE GROUP

- auditing
- assessments
- research
- trainings

Who am i ?

THE CORE GROUP

- auditing
- assessments
- research
- trainings



TOOOL
The Open Organisation Of Lockpickers

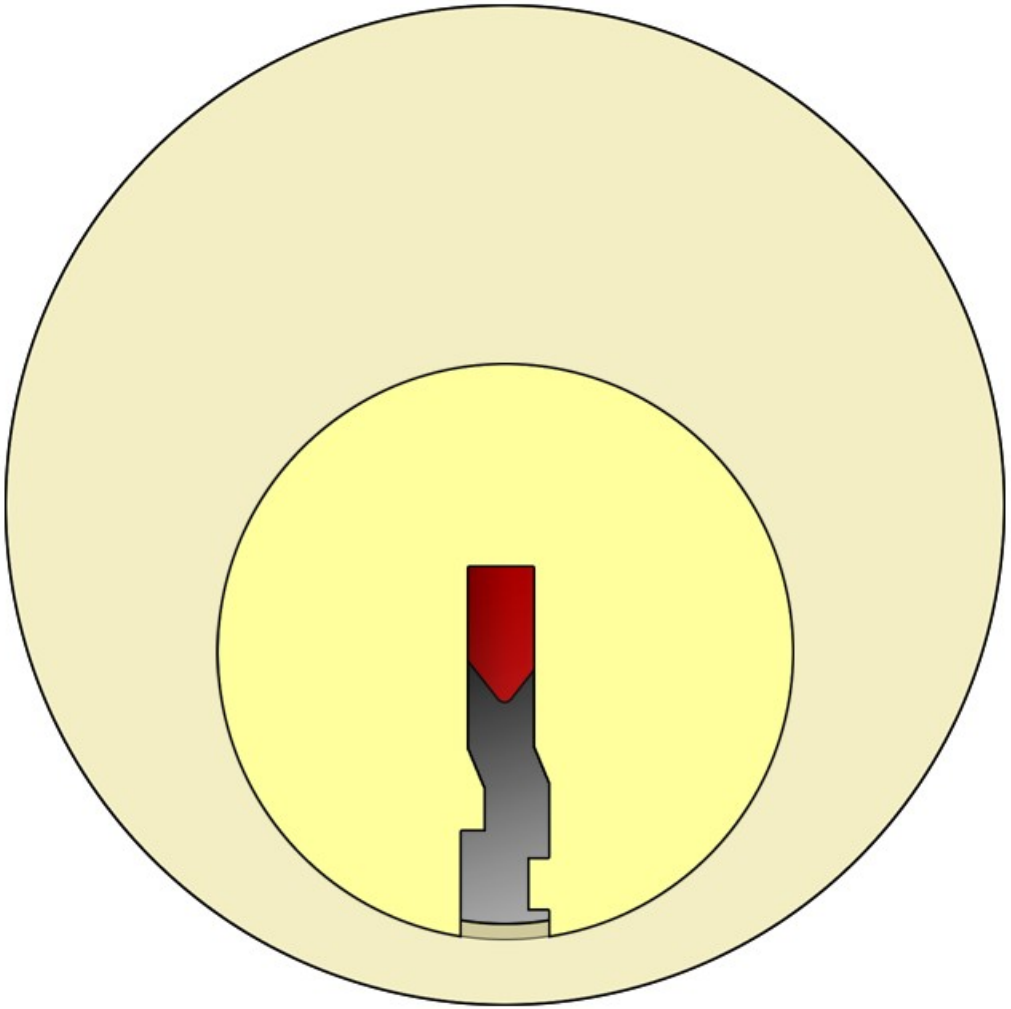
- workshops
- public lectures
- lockpick village
- contests & games

Pin Tumbler Locks

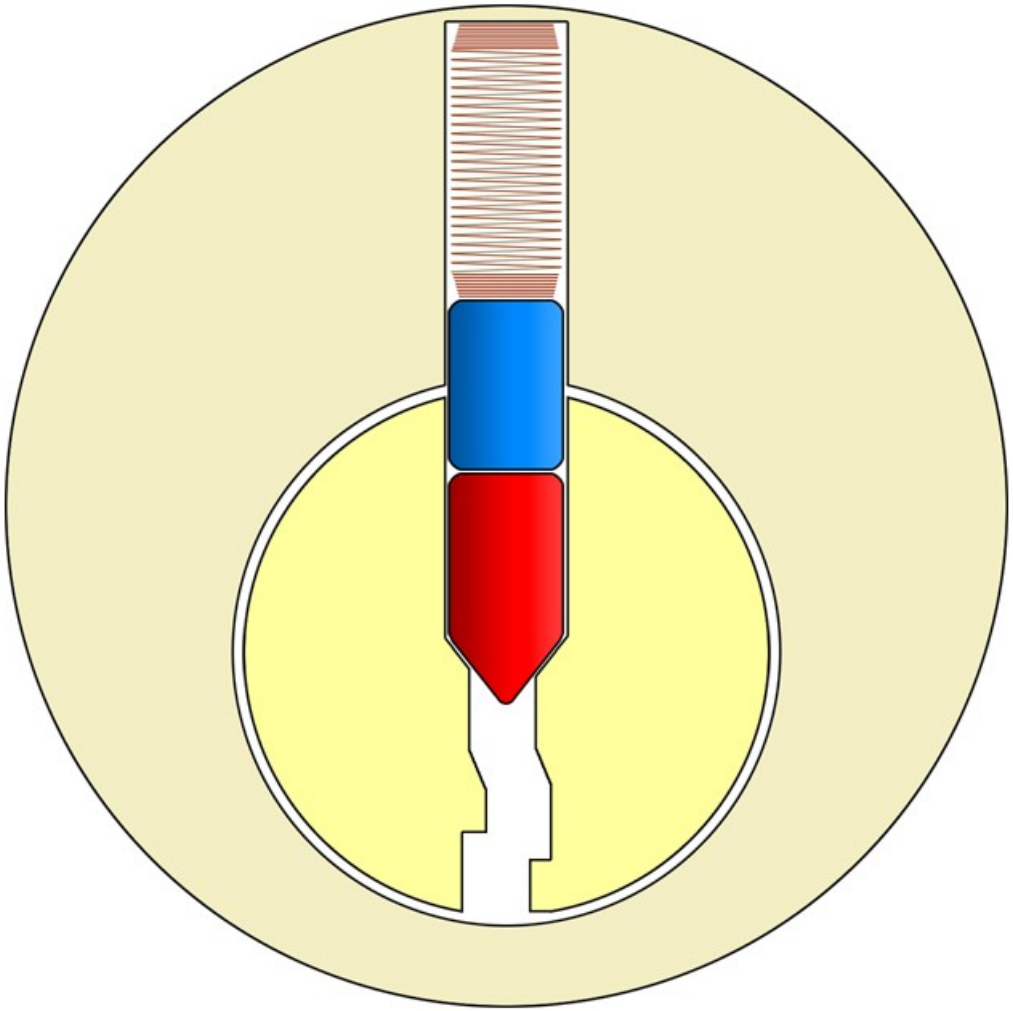
Pin Tumbler Locks

Pin Tumbler Locks

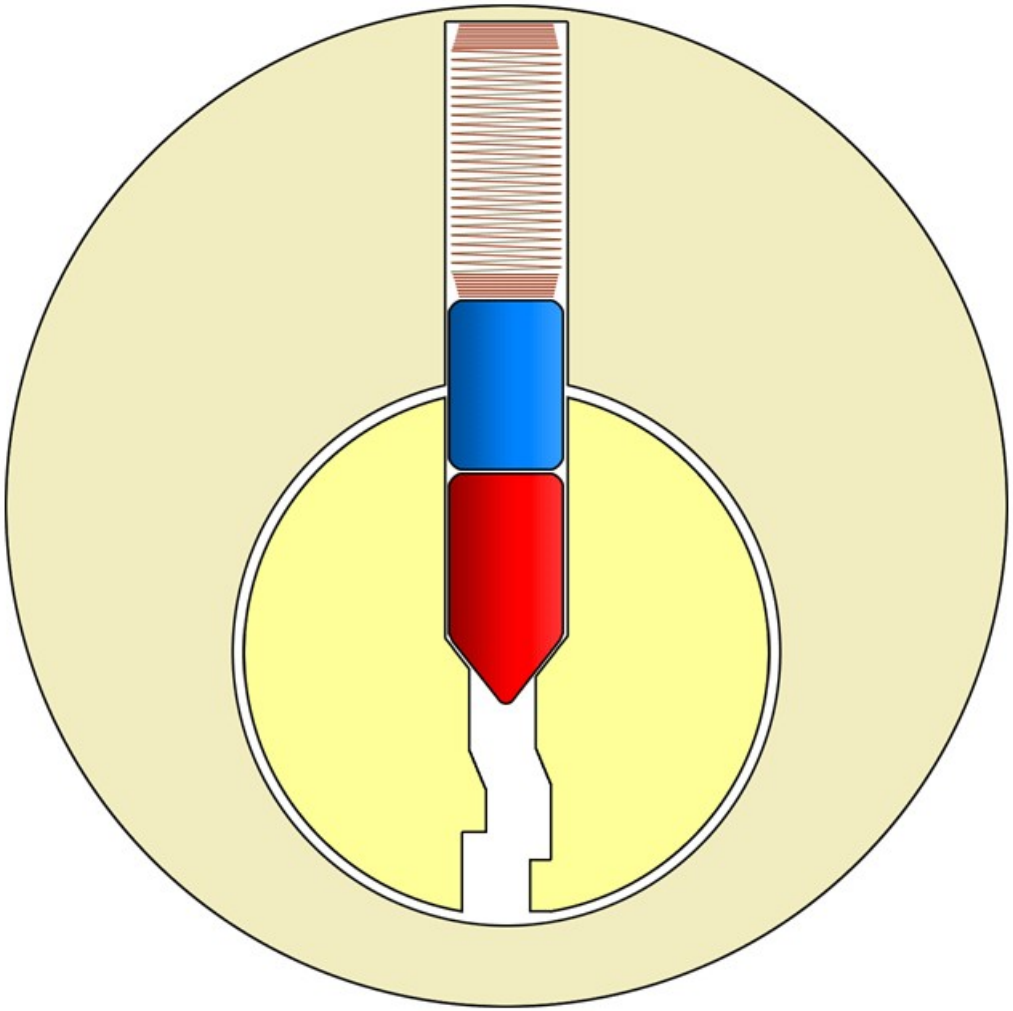
The View From Outside



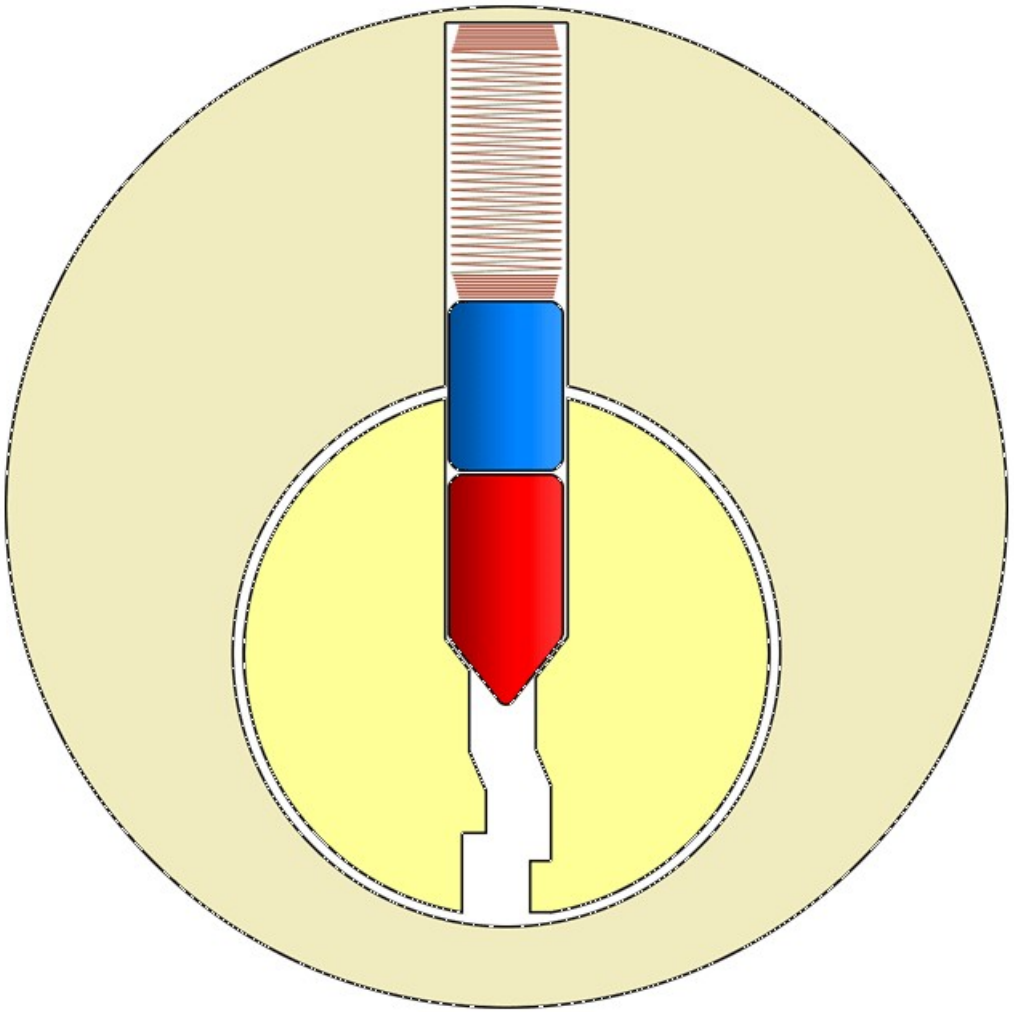
What's On The Inside



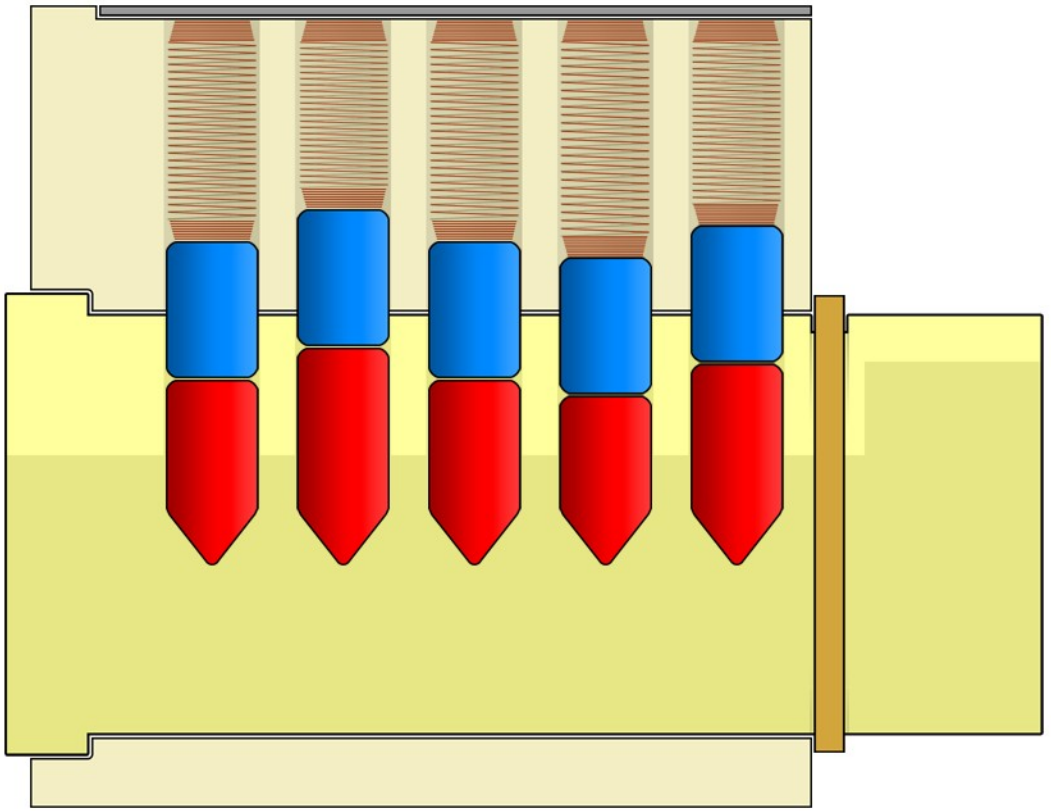
What's On The Inside



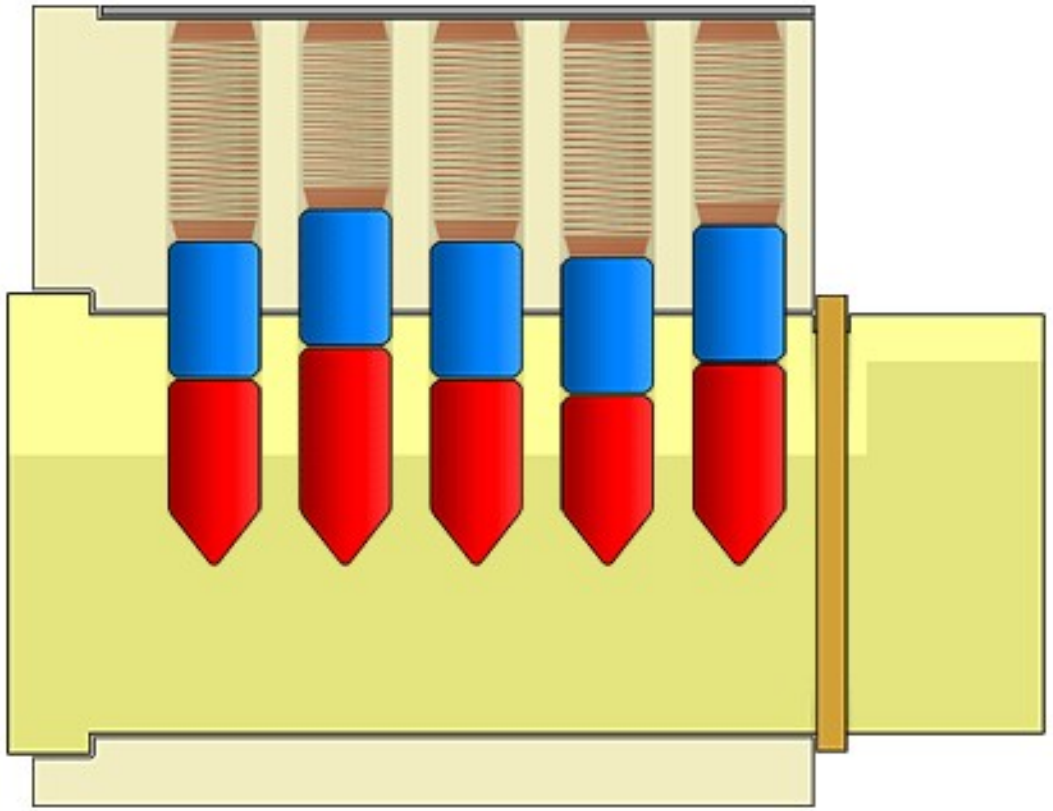
What's On The Inside



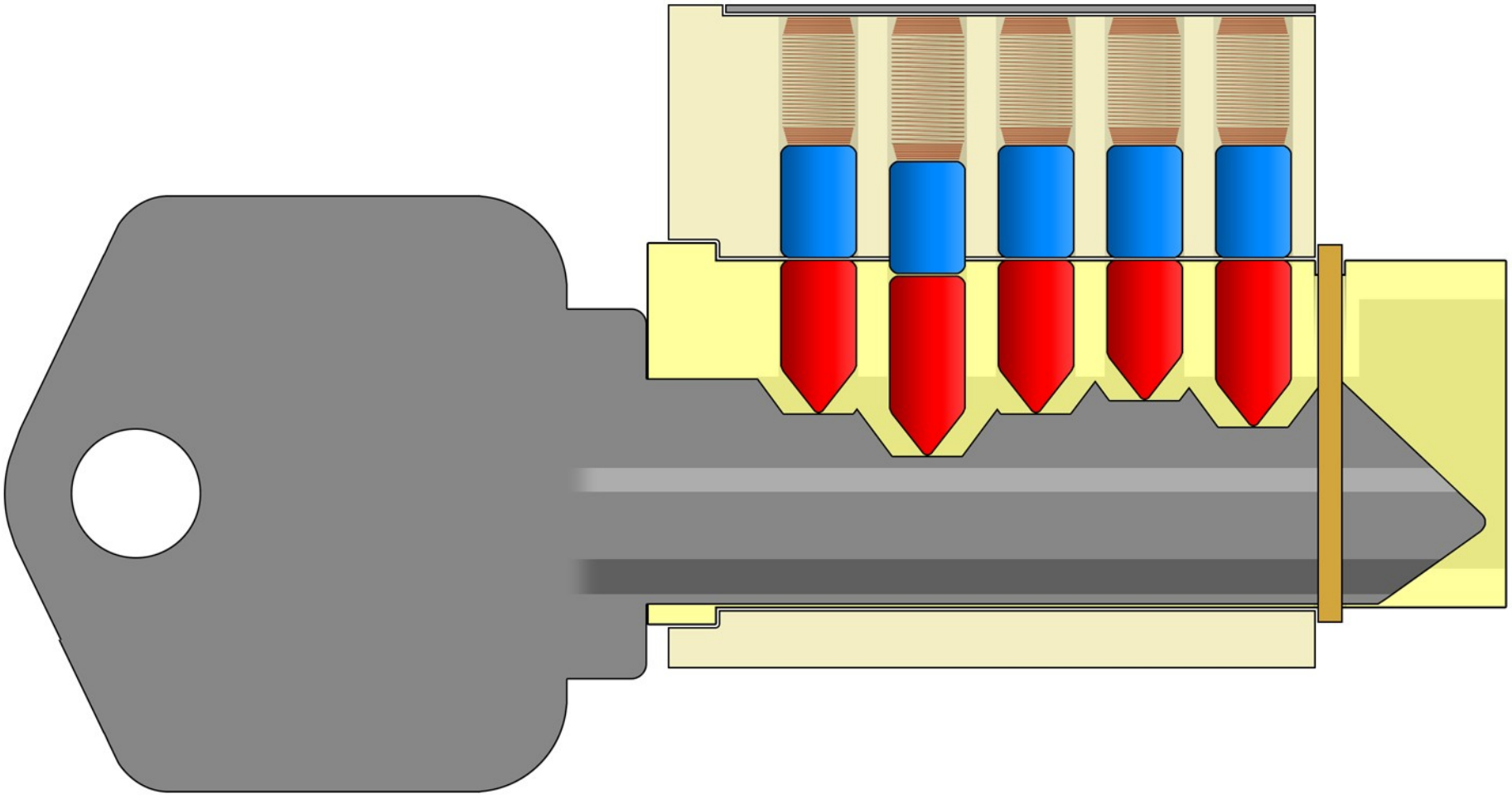
It’s Not Just a Single Pin Stack



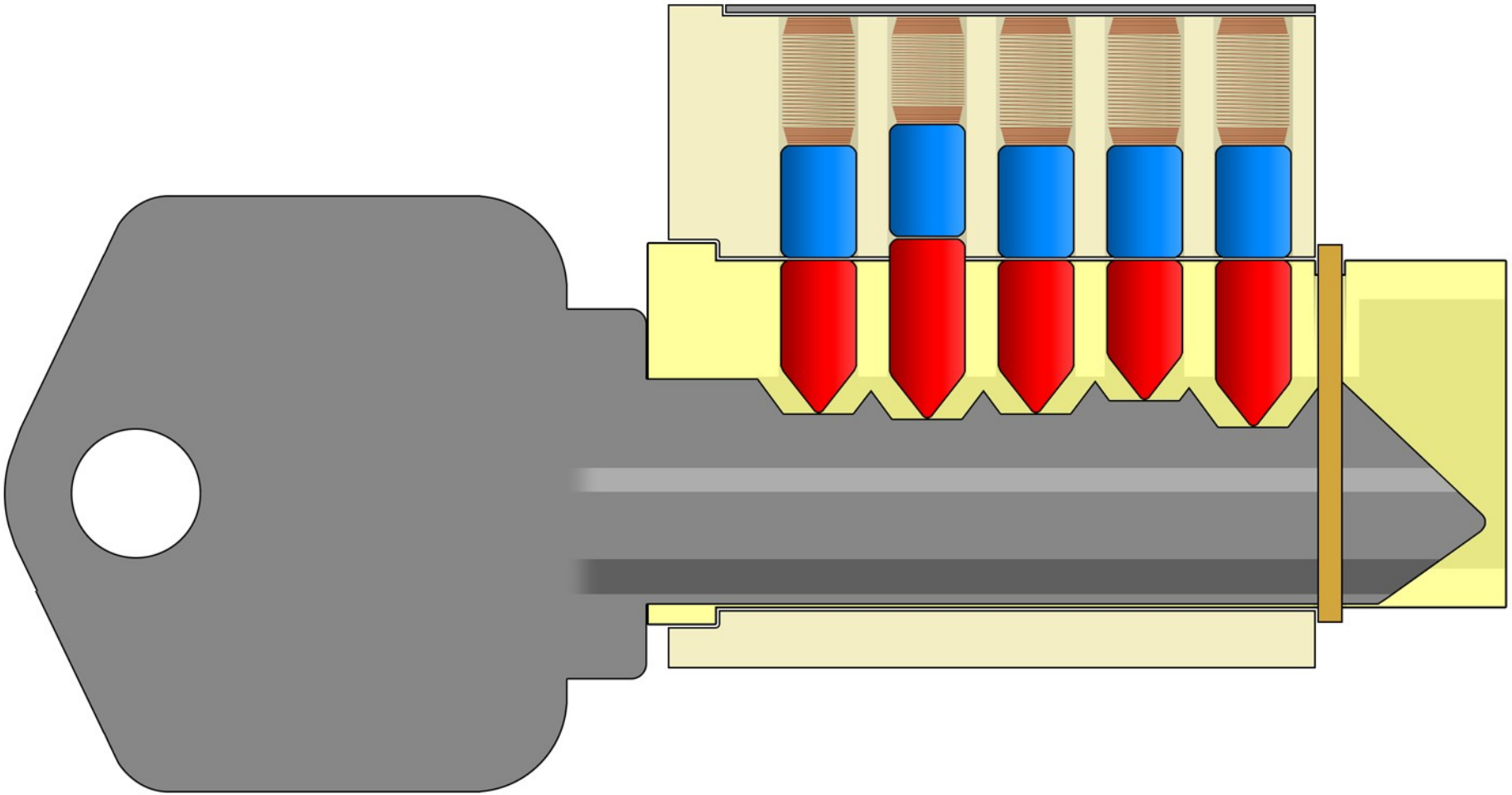
It’s Not Just a Single Pin Stack



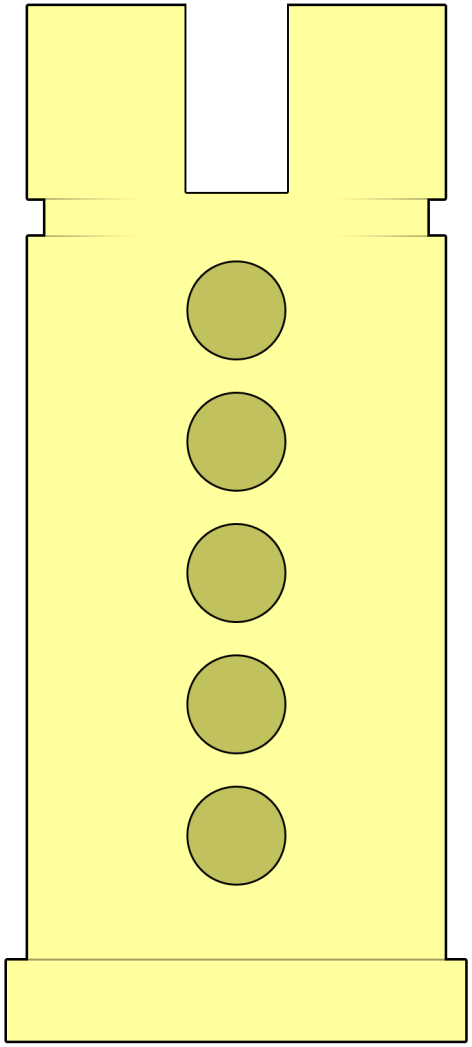
The Key Has To Be Just Right

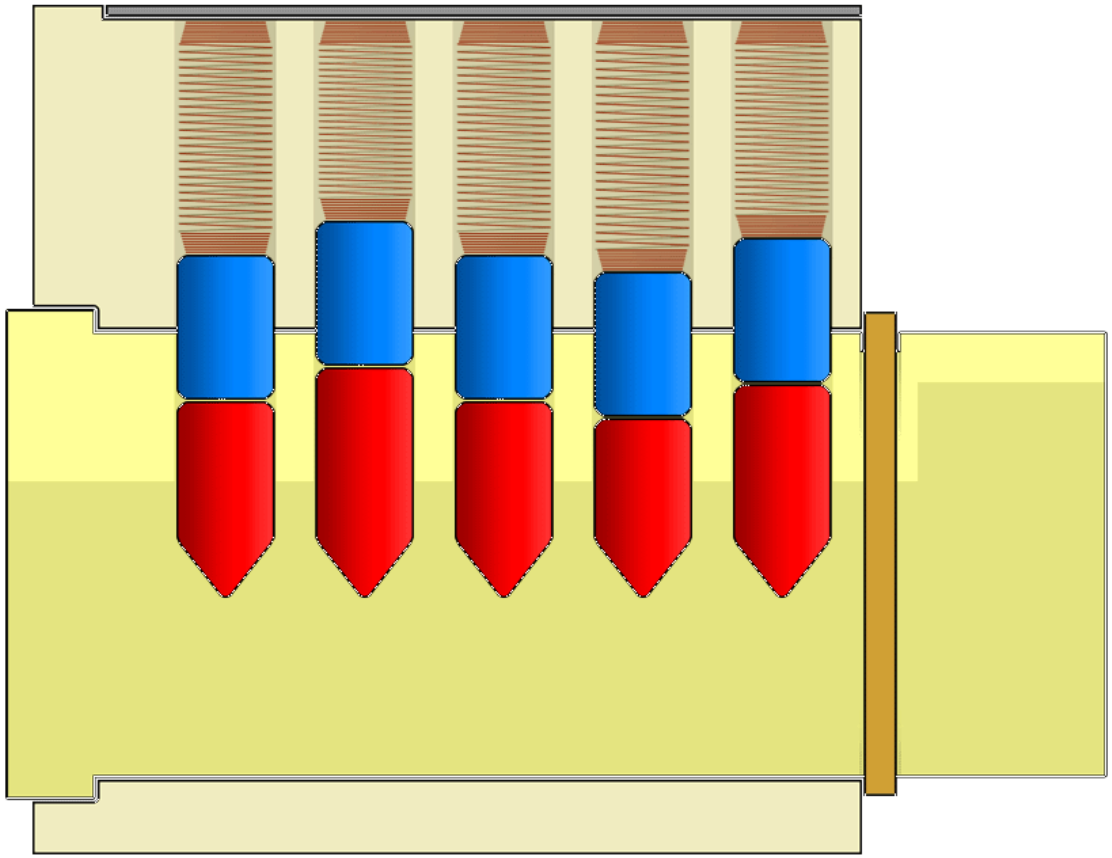


The Key Has To Be Just Right

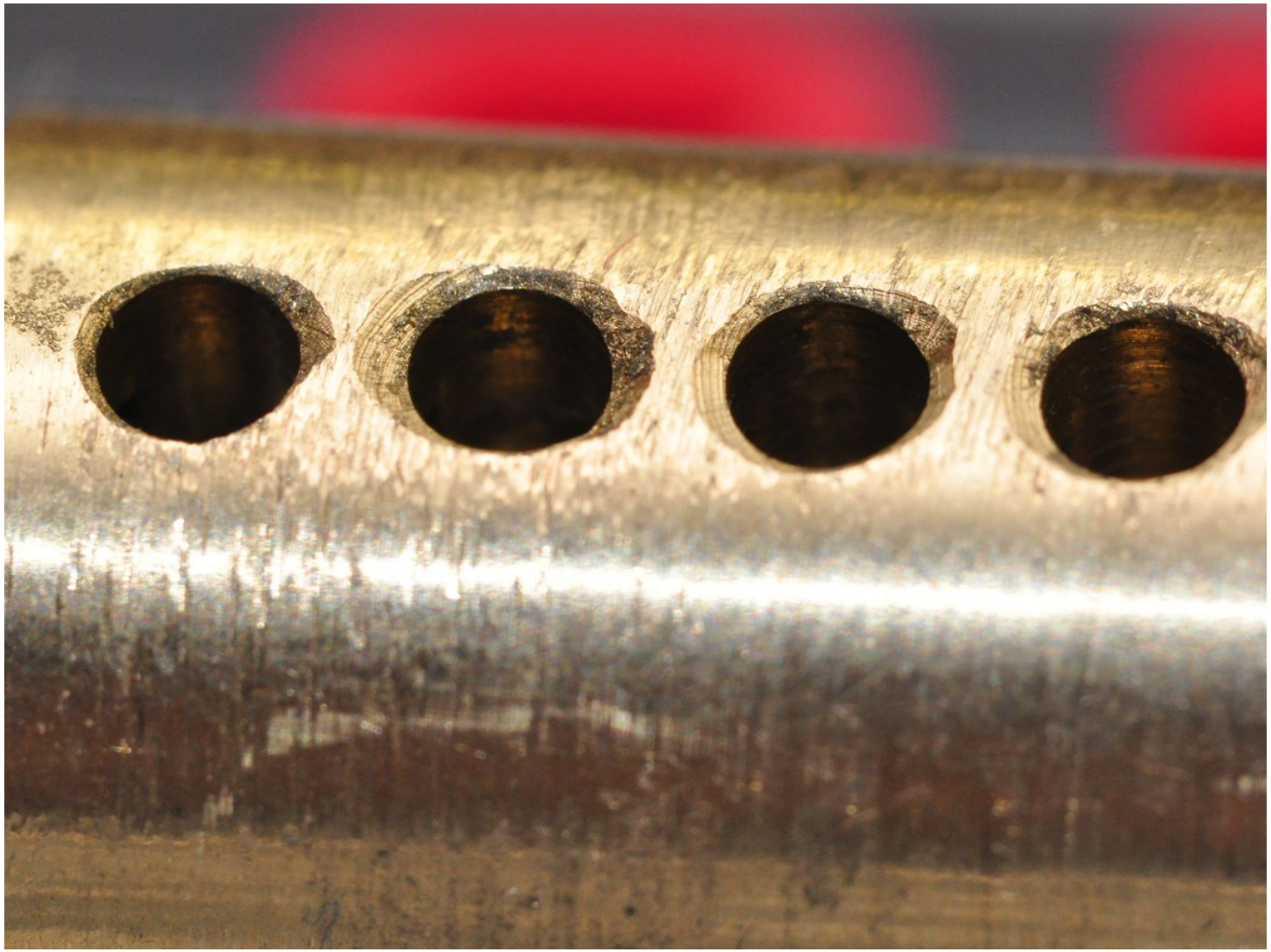


In An Ideal World …

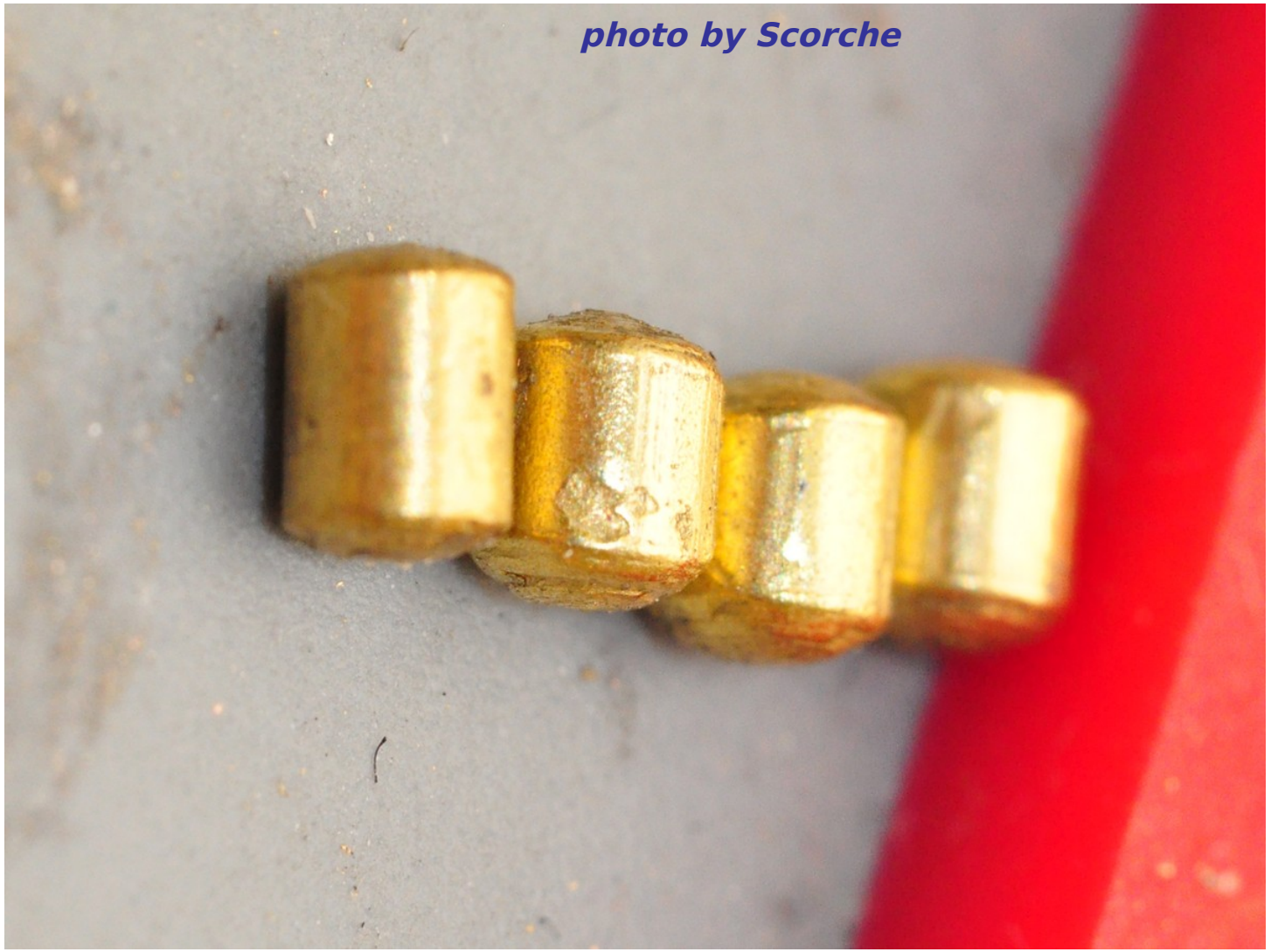




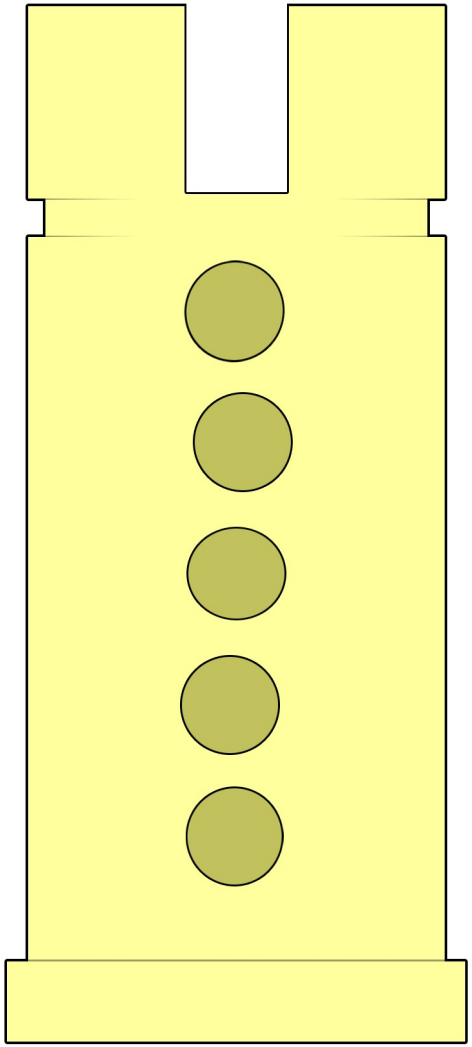
In The Real World …

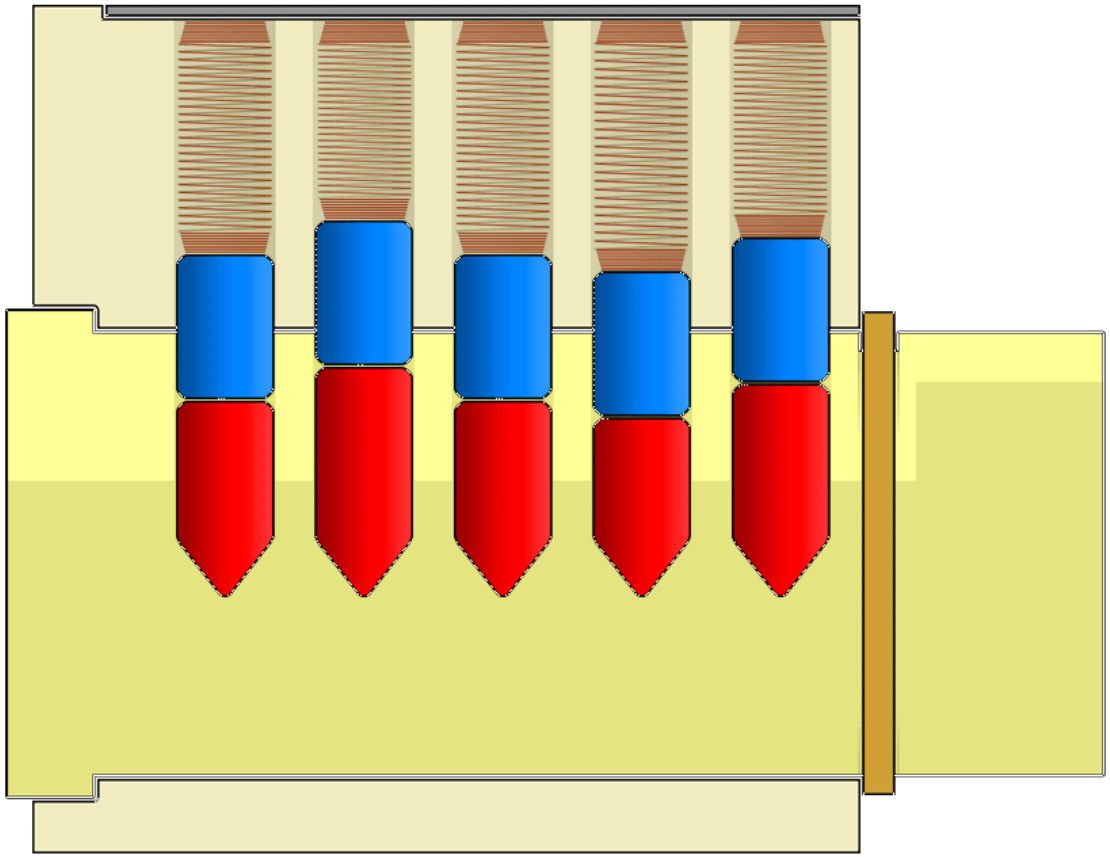


In The Real World …

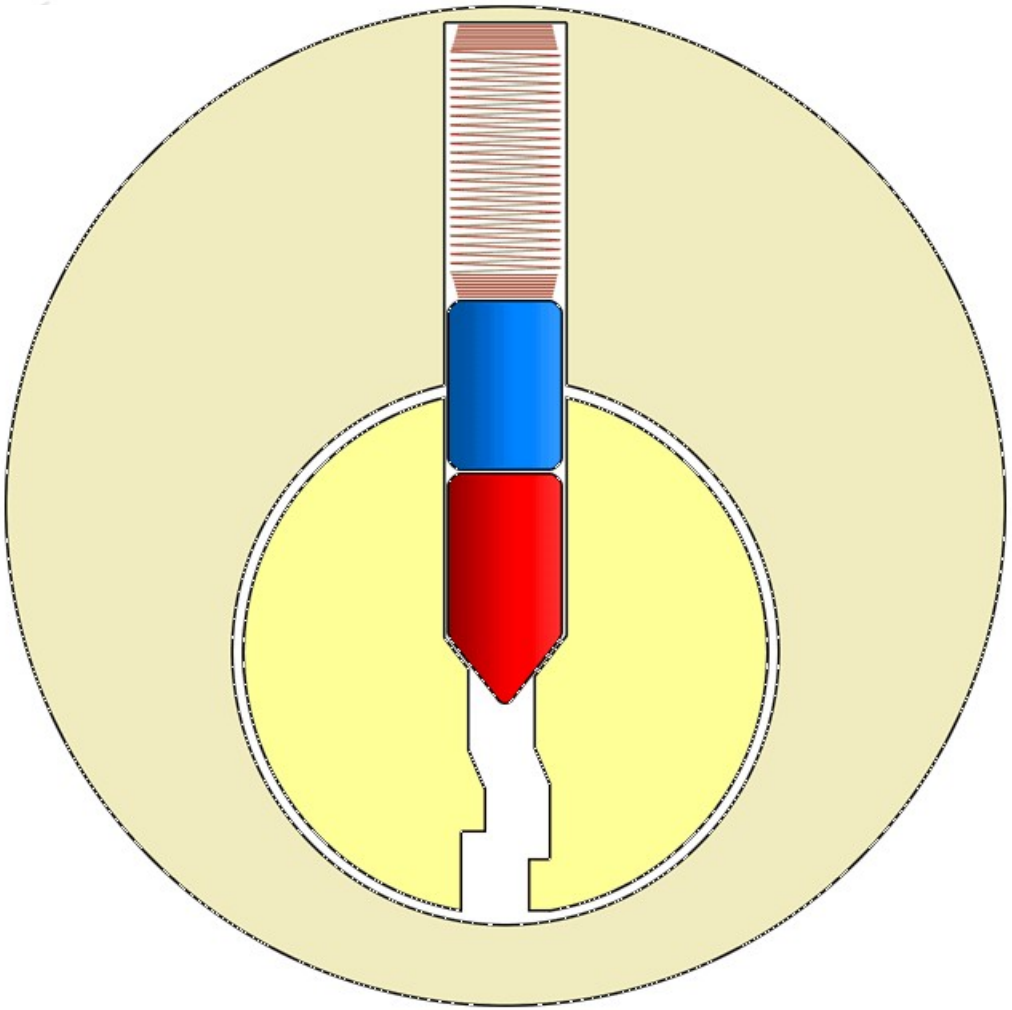


In The Real World …

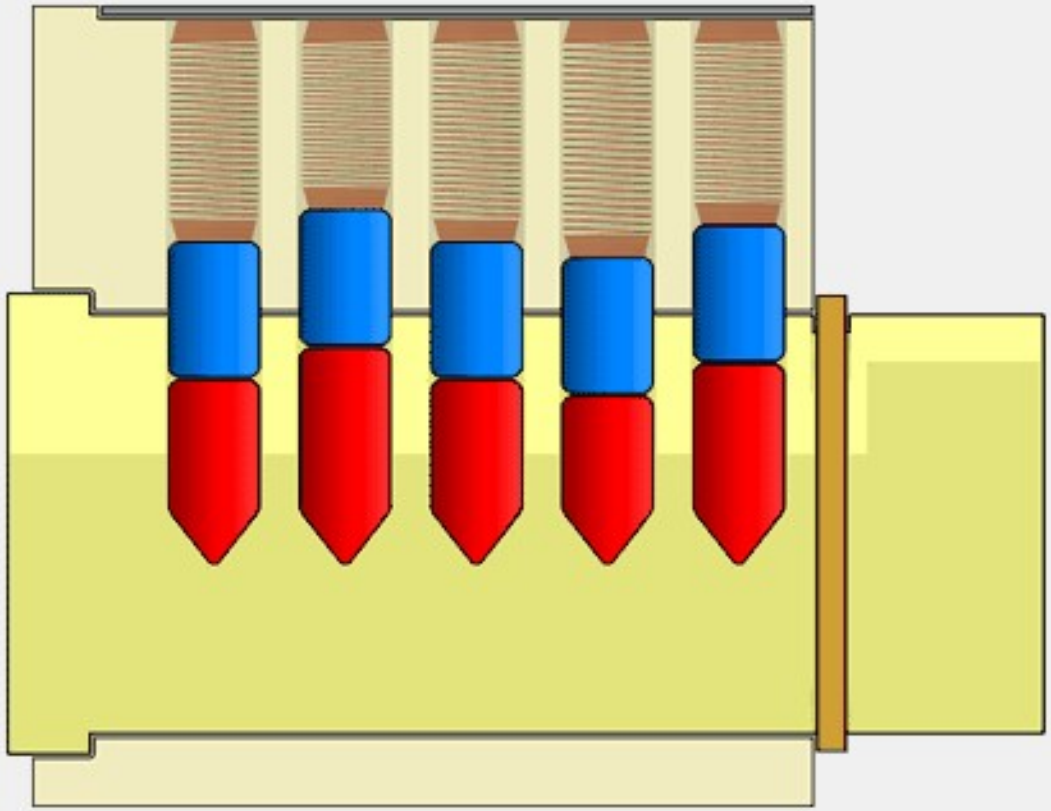




Setting a Pin



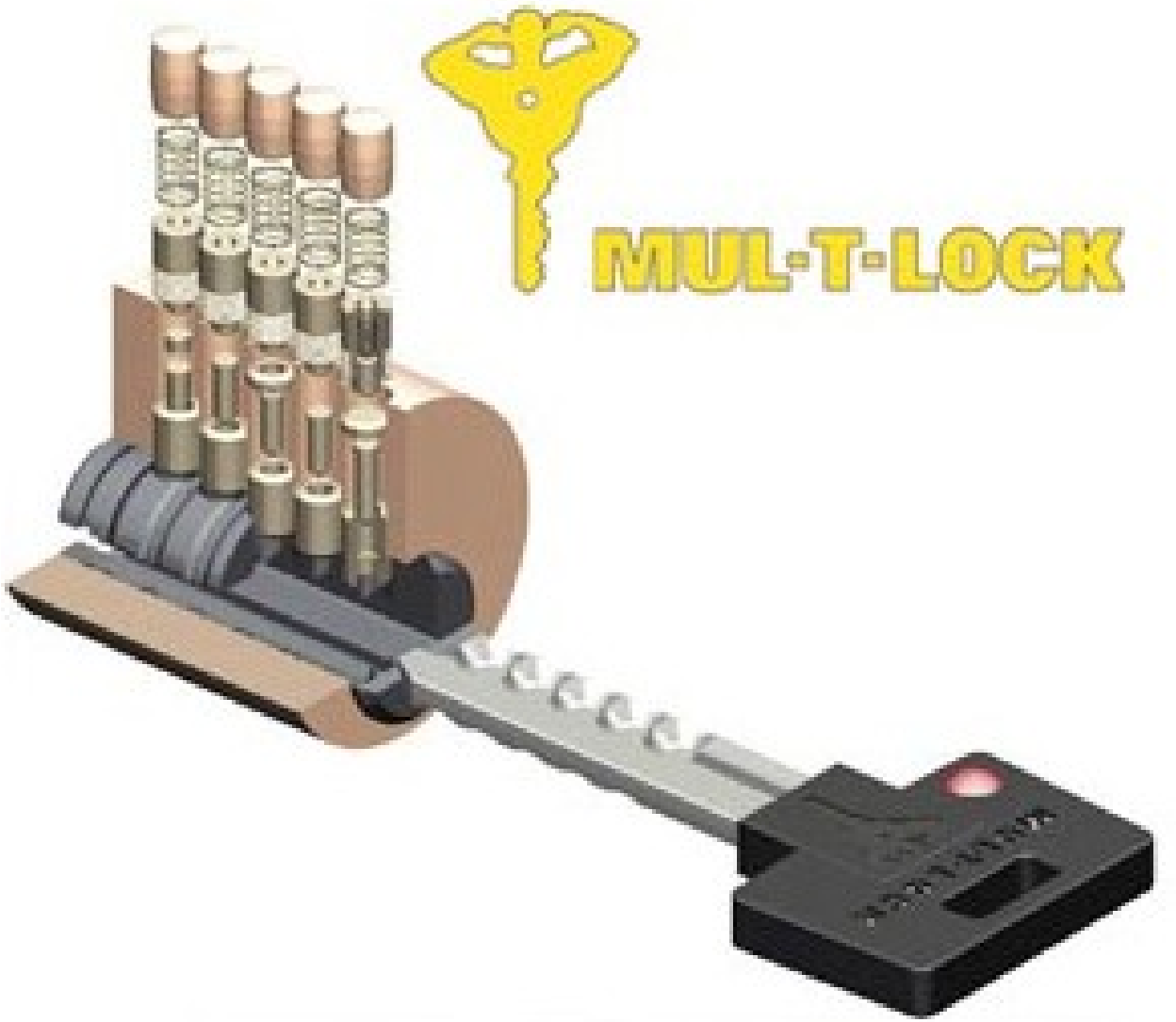
Setting the Pins



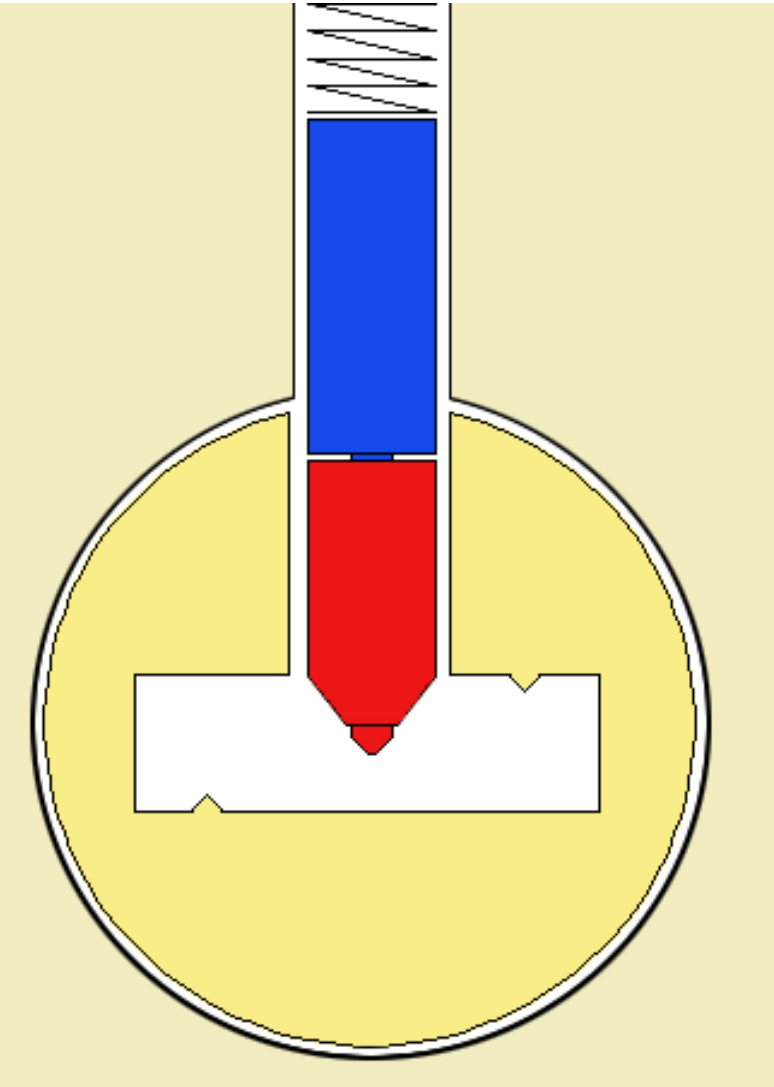
So How Do Some Manufacturers

Attempt To Make Locks Better?

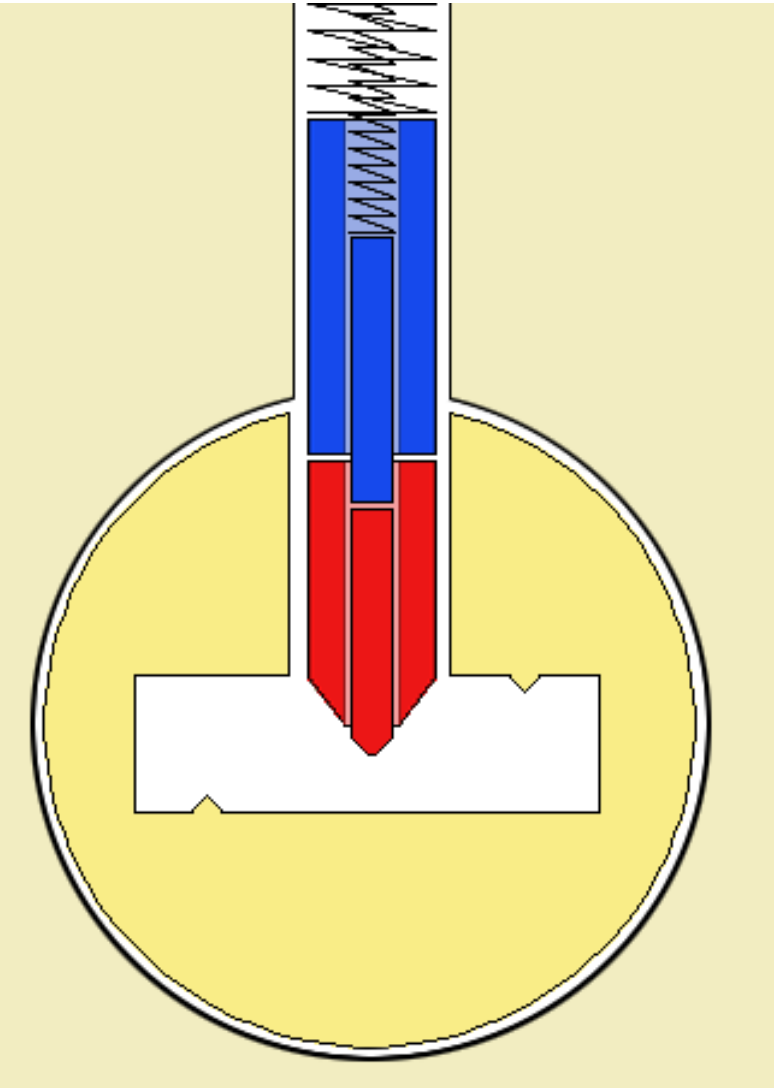
Mul-T-Lock



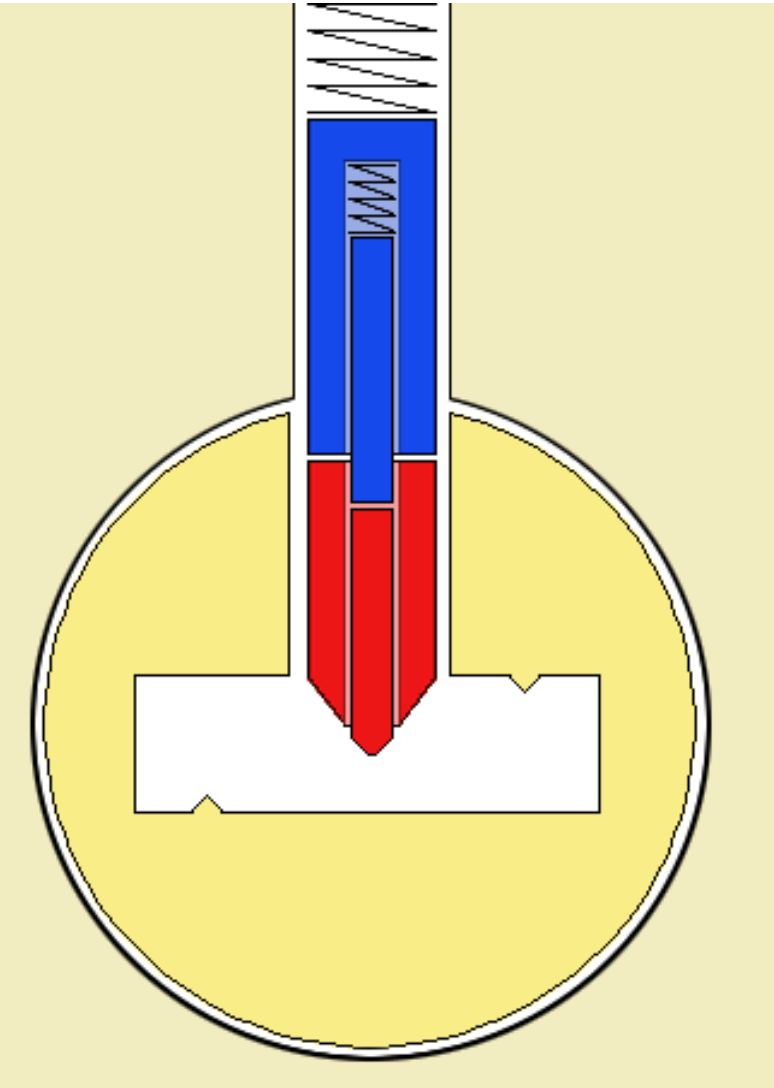
Mul-T-Lock



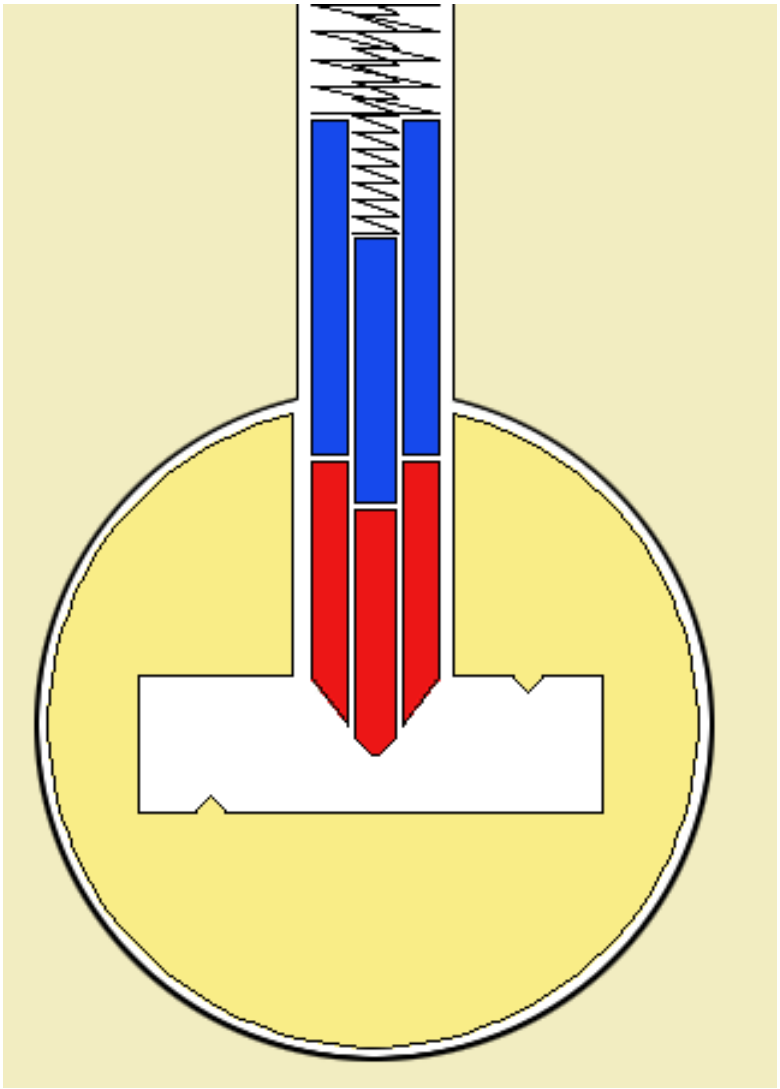
Mul-T-Lock

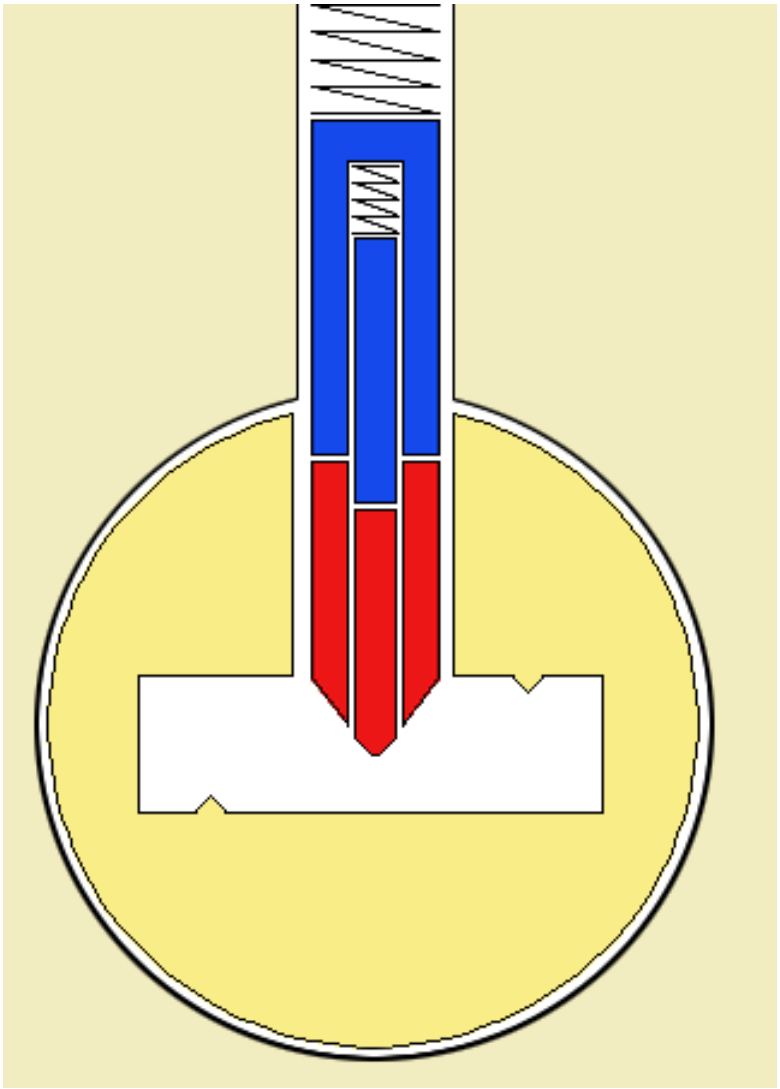


Mul-T-Lock



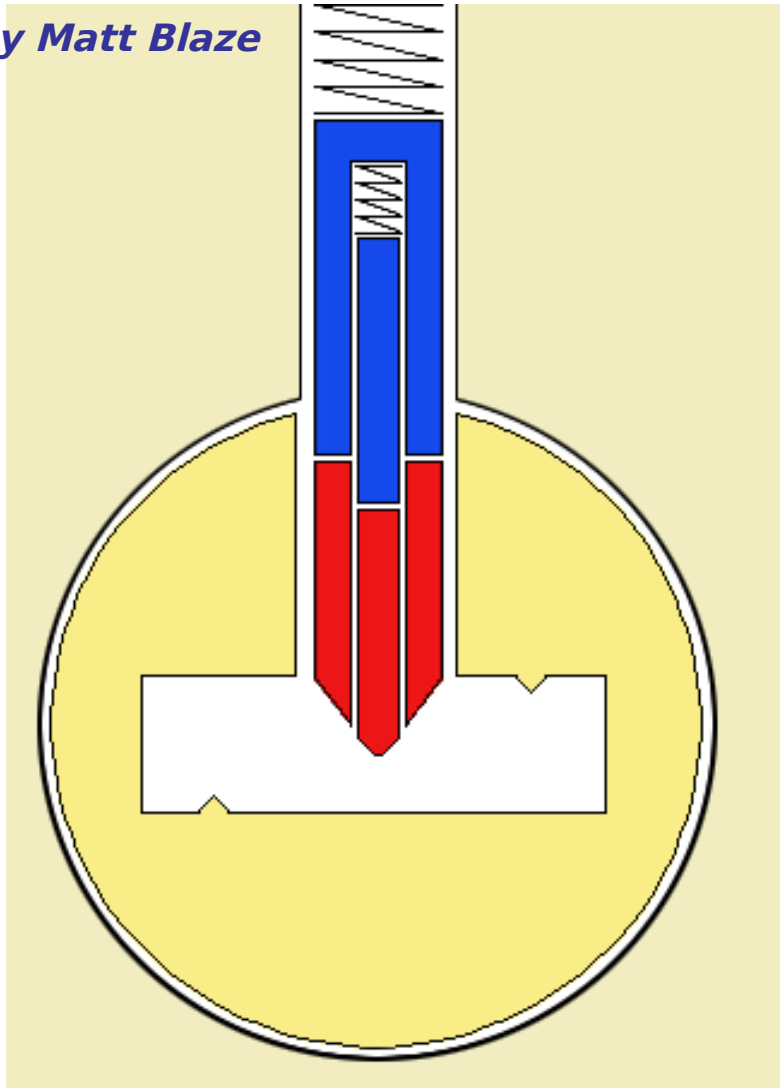
Mul-T-Lock





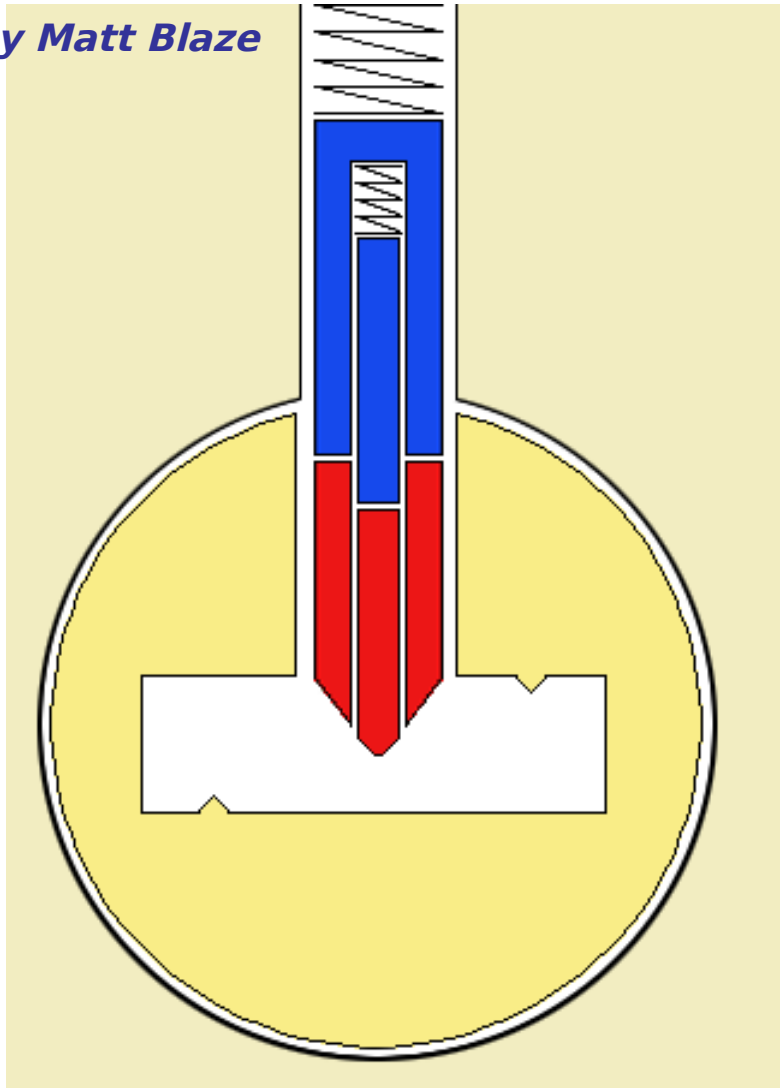
Mul-T-Lock

oto by Matt Blaze

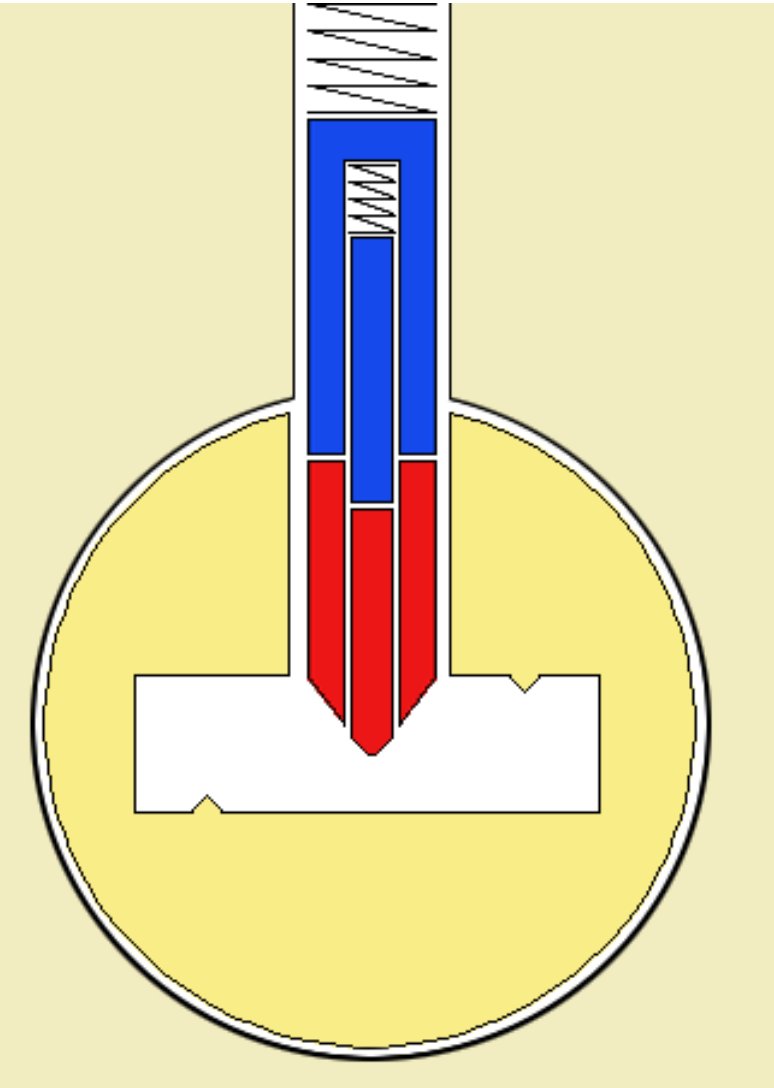


Mul-T-Lock

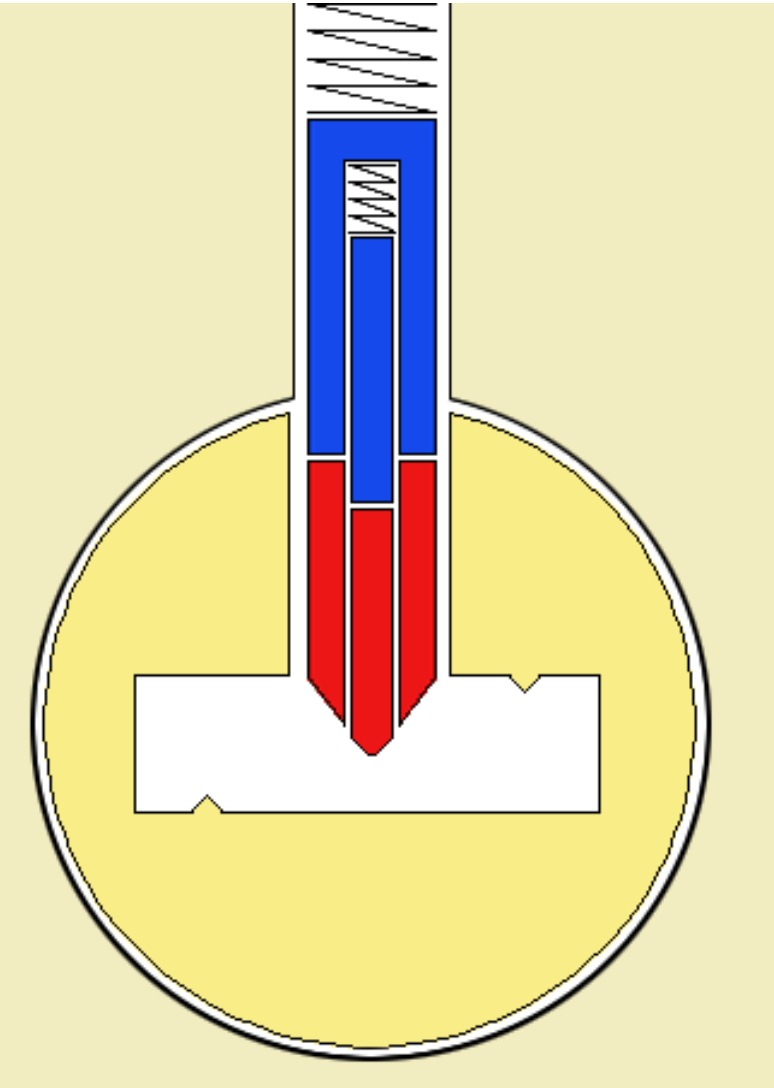
photo by Matt Blaze



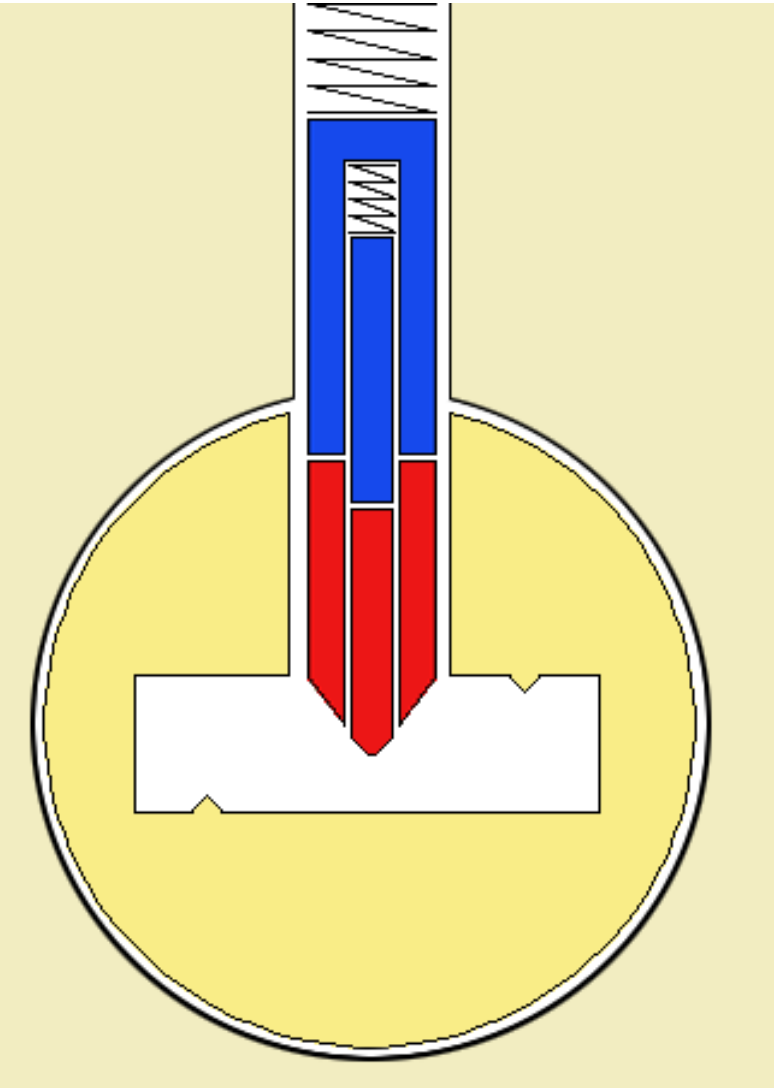
Mul-T-Lock



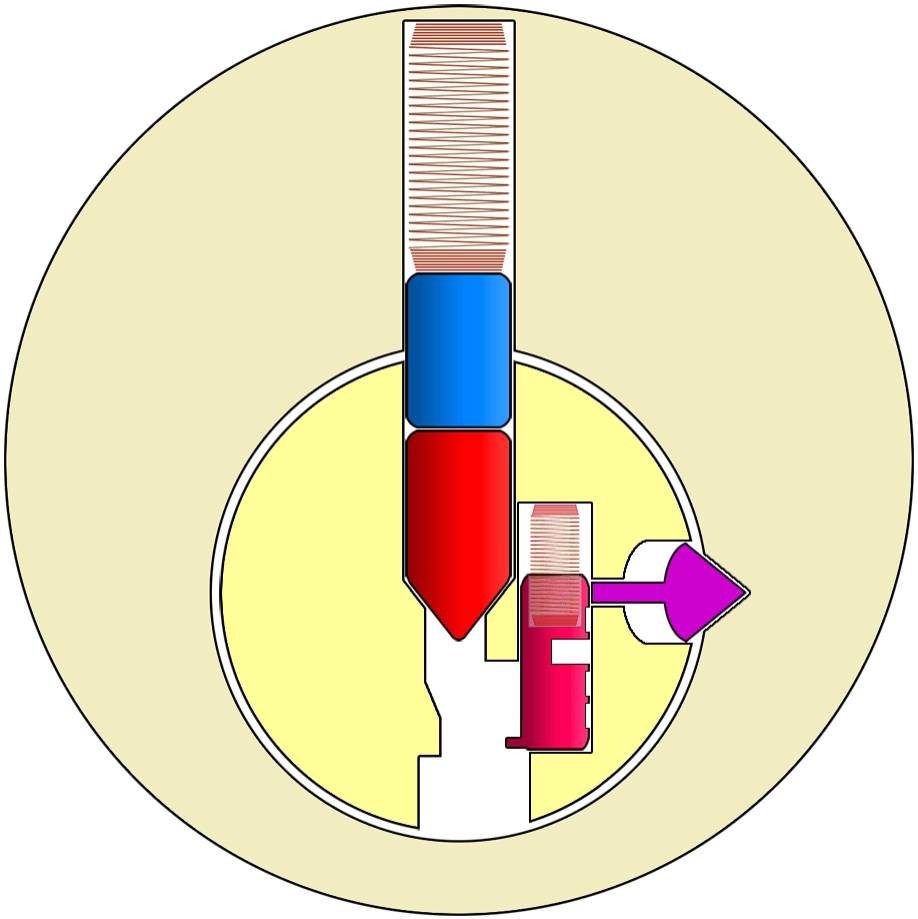
Mul-T-Lock



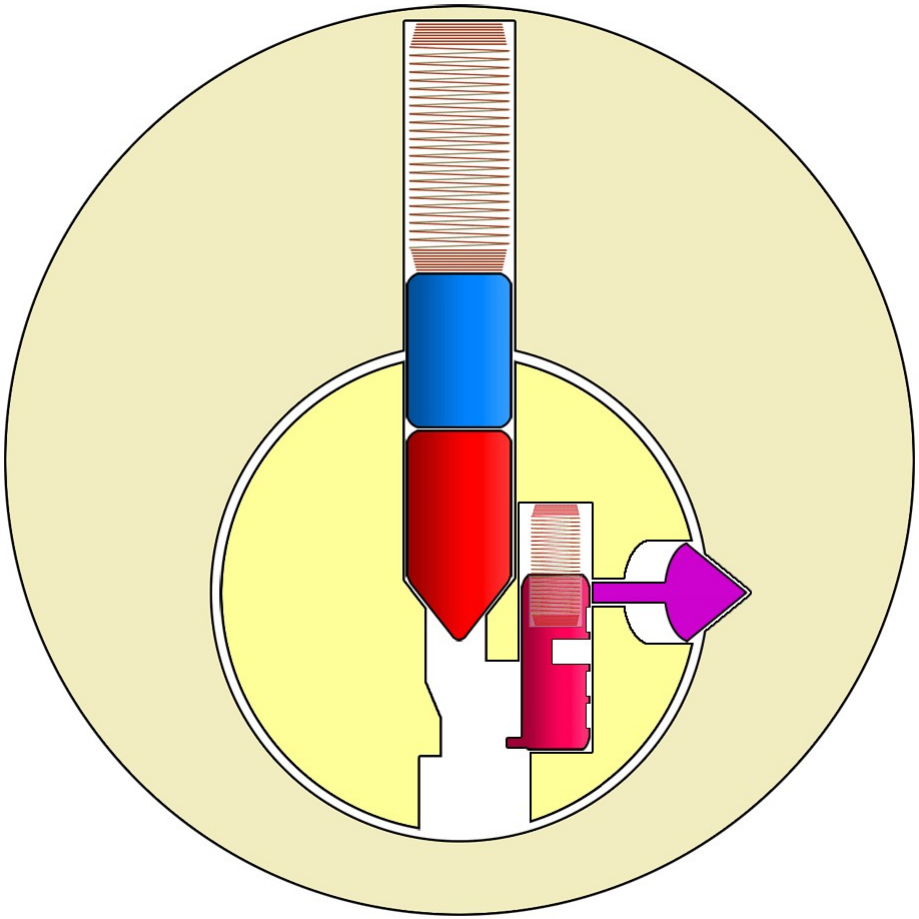
Mul-T-Lock



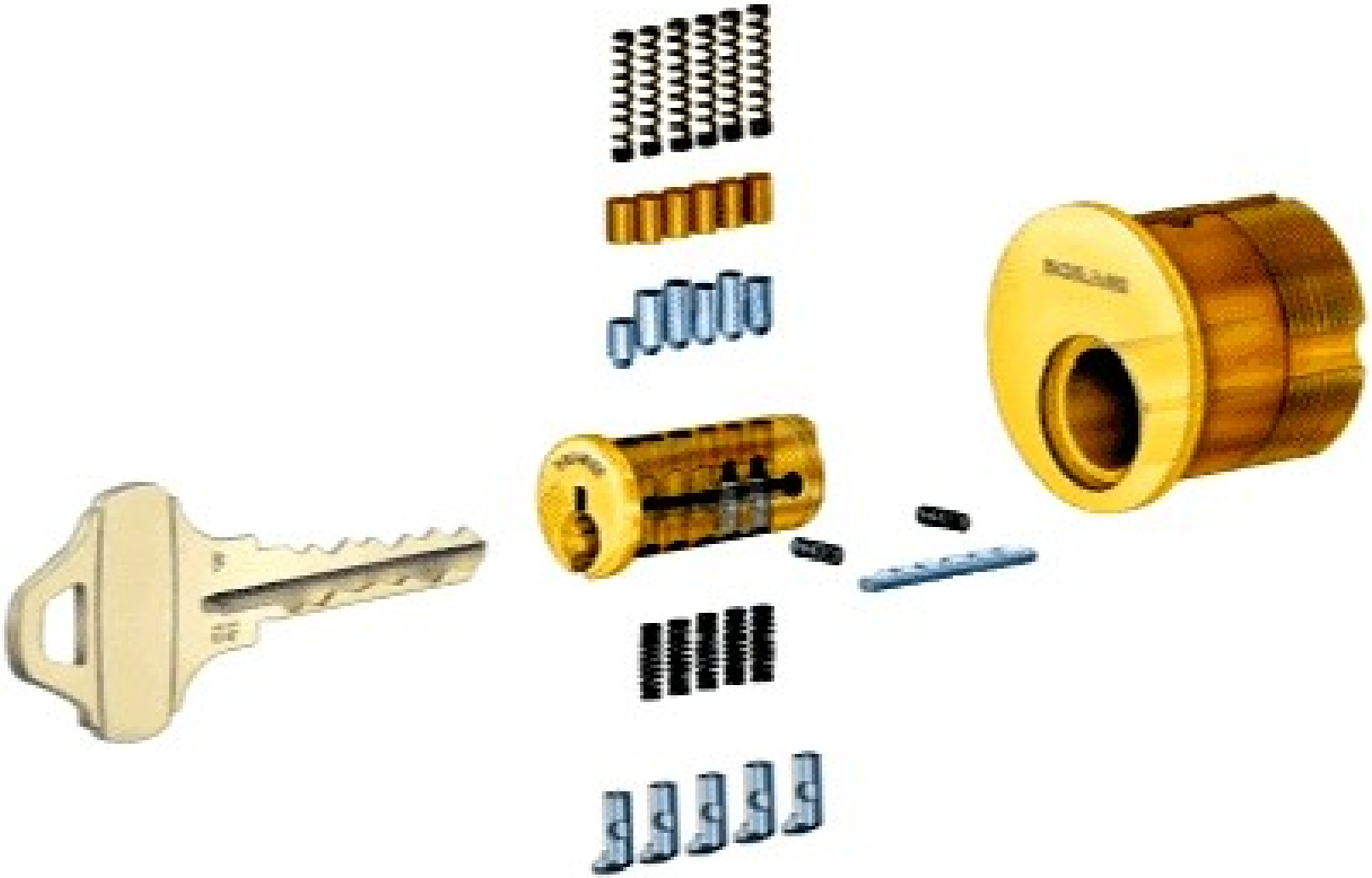
Side Bars



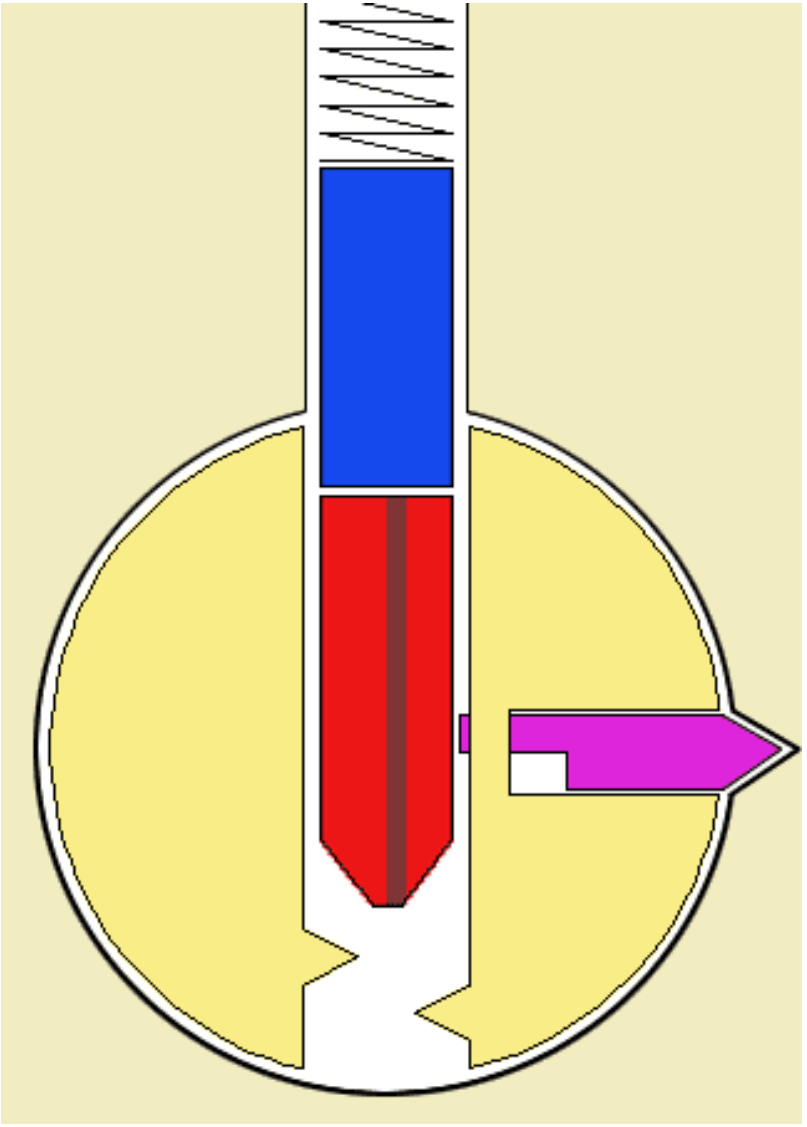
Side Bars



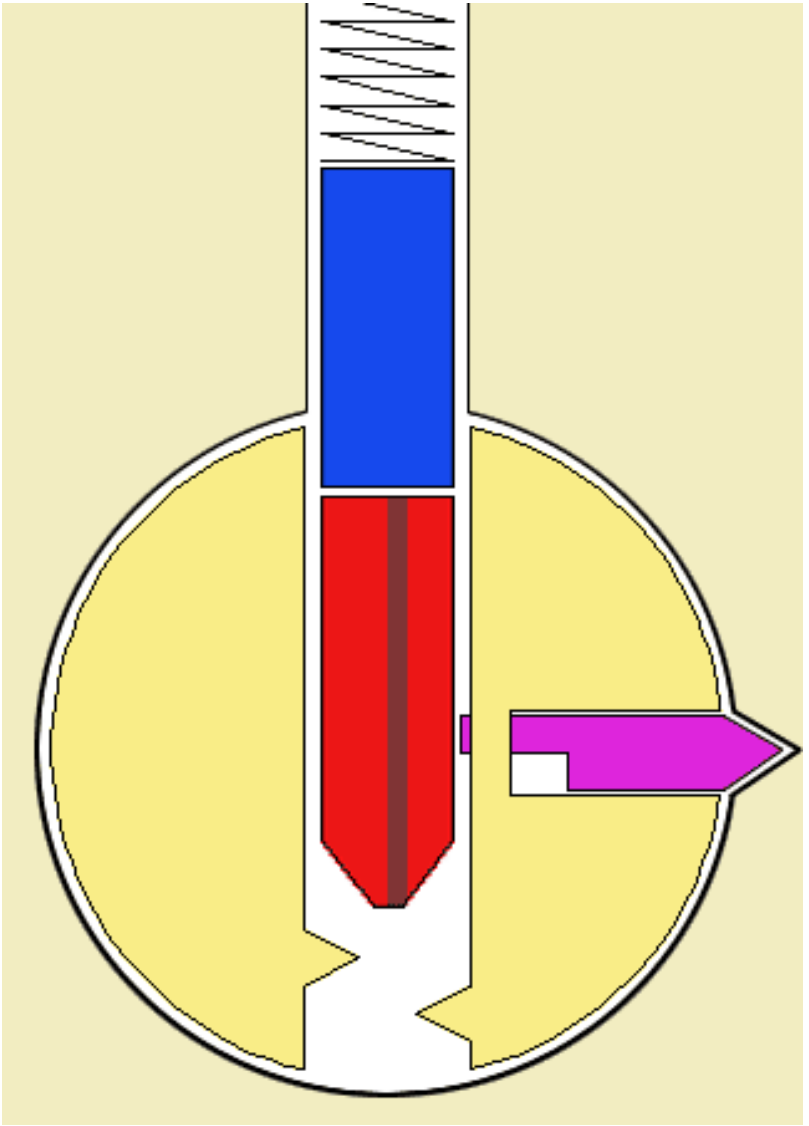
Schlage Primus



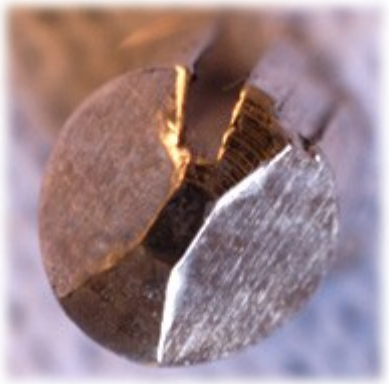
Medeco



Medeco



Medeco

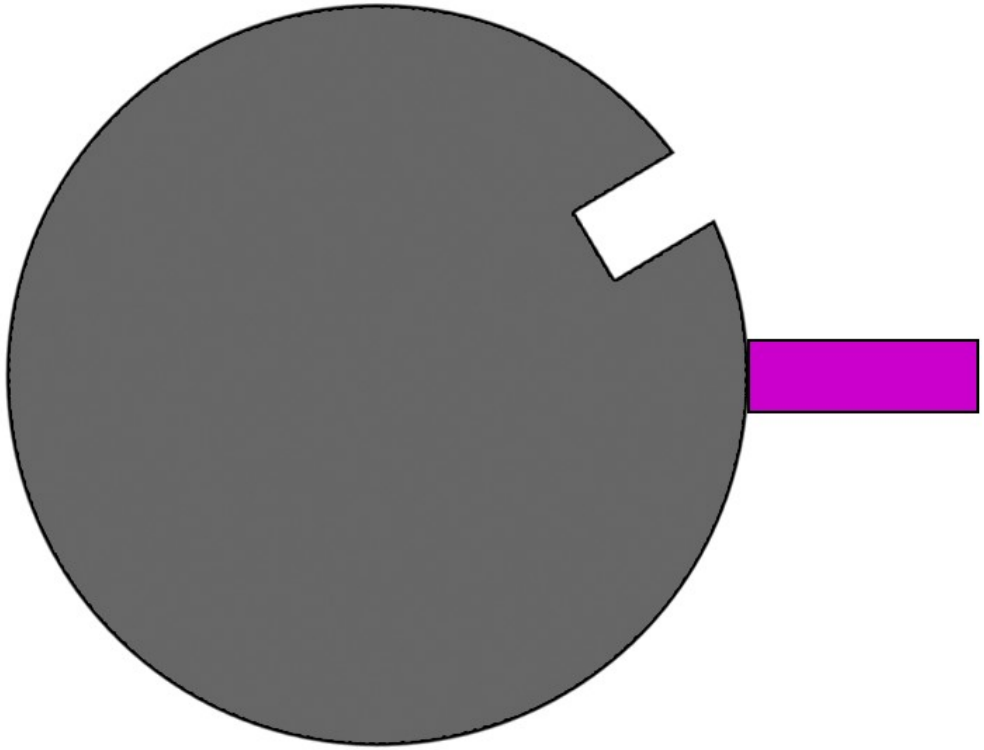


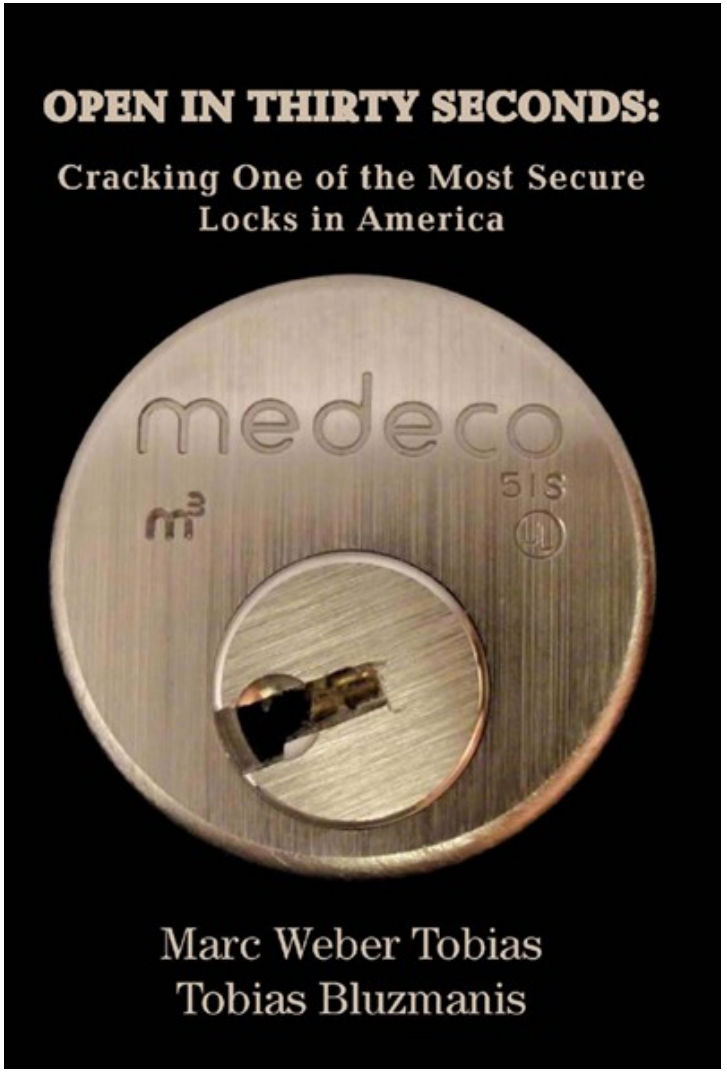
Medeco plug exposed, key pins rotating to align sidebar cuts

Top View

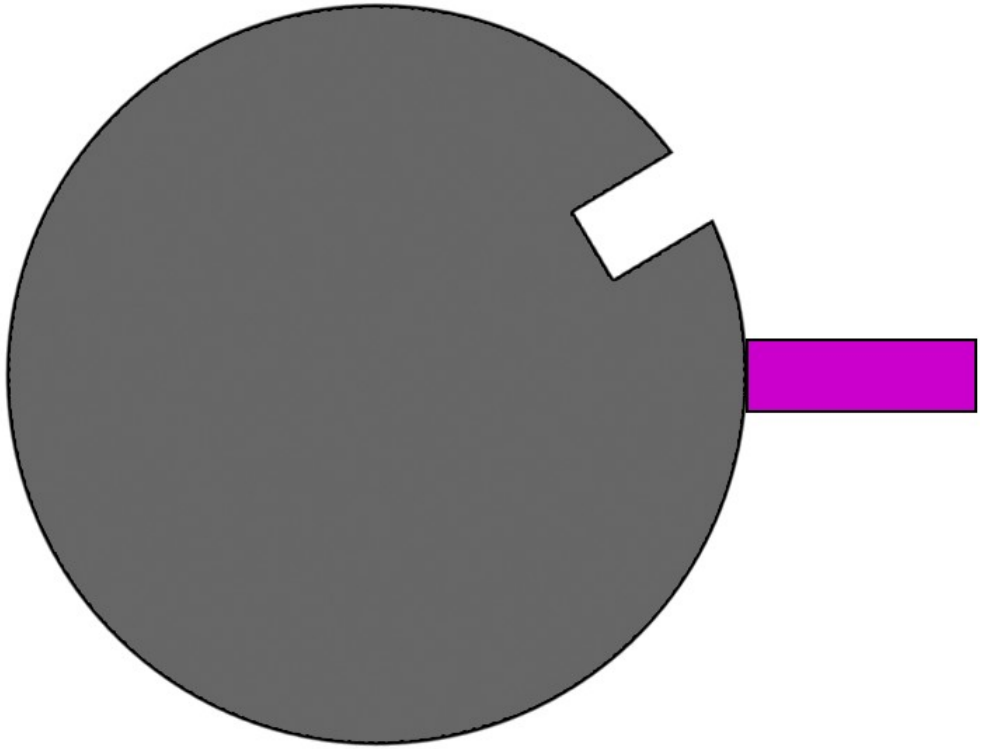
Side View

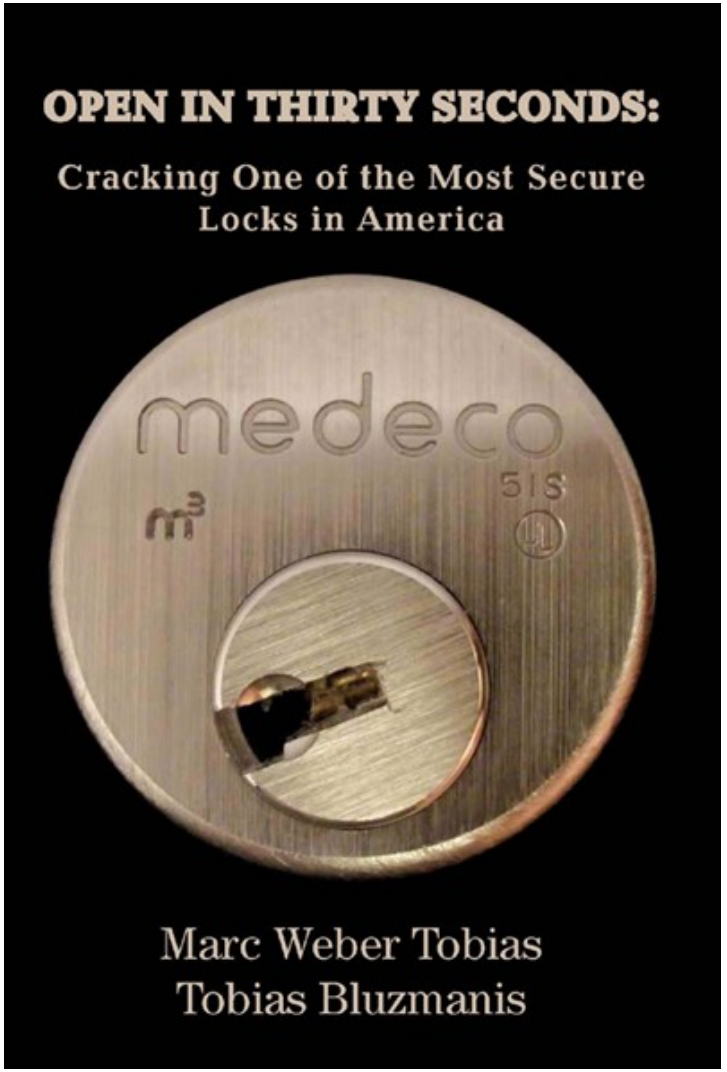
Medeco



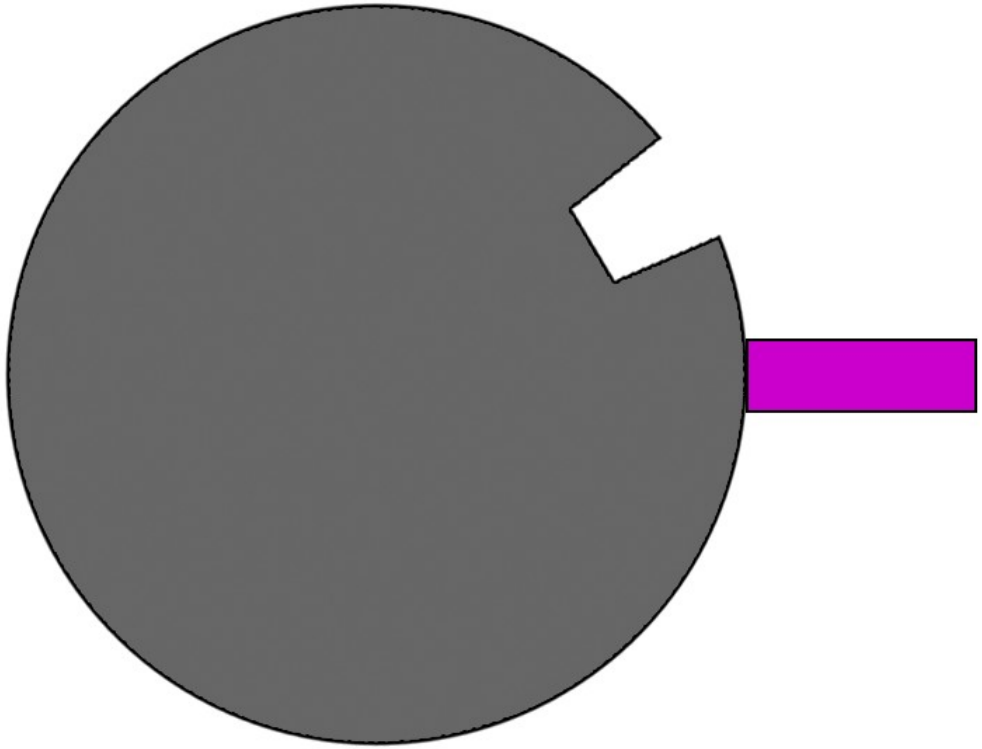

OPEN IN THIRTY SECONDS:
Cracking One of the Most Secure Locks in America
medeco
Marc Weber Tobias
Tobias Bluzmanis

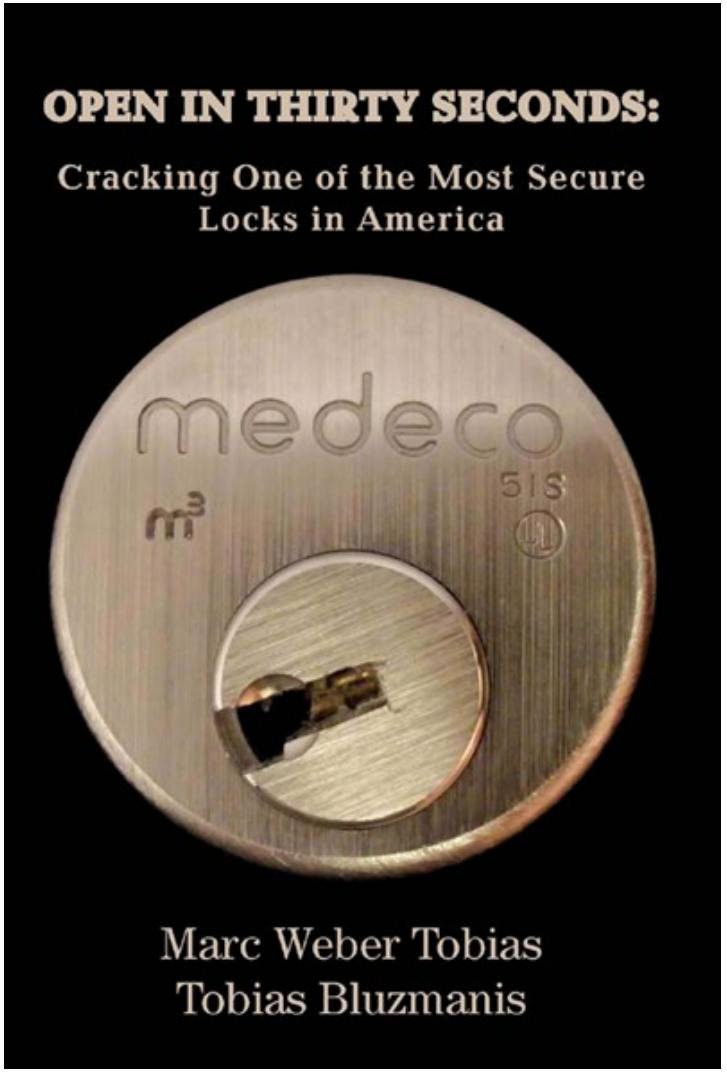
Medeco



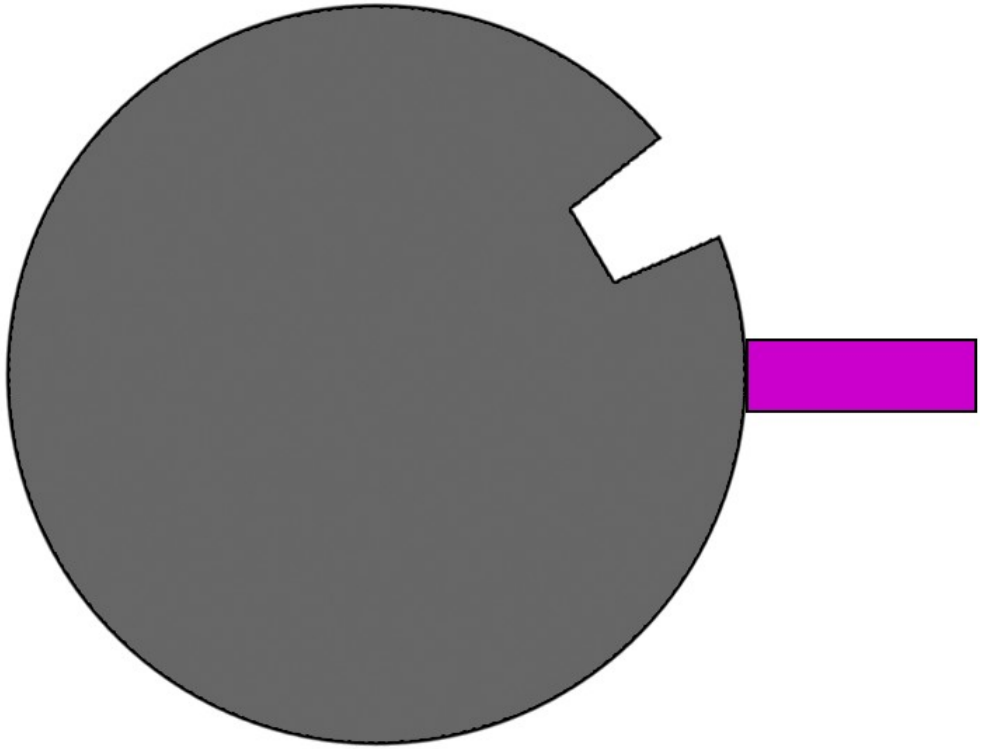

OPEN IN THIRTY SECONDS:
Cracking One of the Most Secure Locks in America
medeco
Marc Weber Tobias
Tobias Bluzmanis

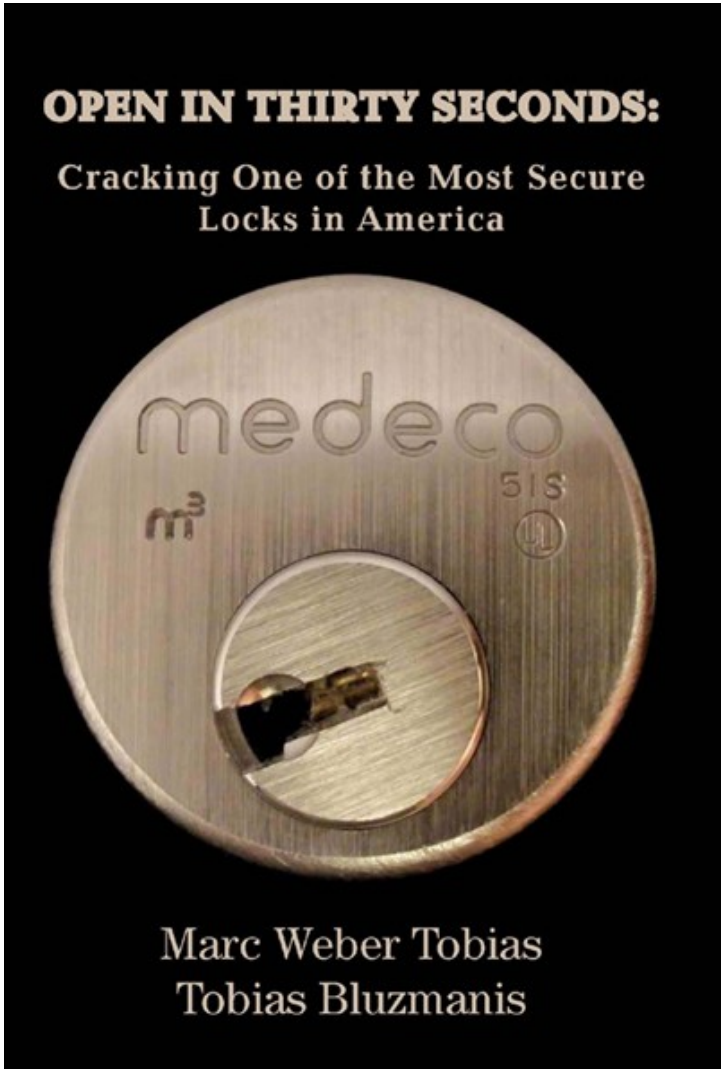
Medeco



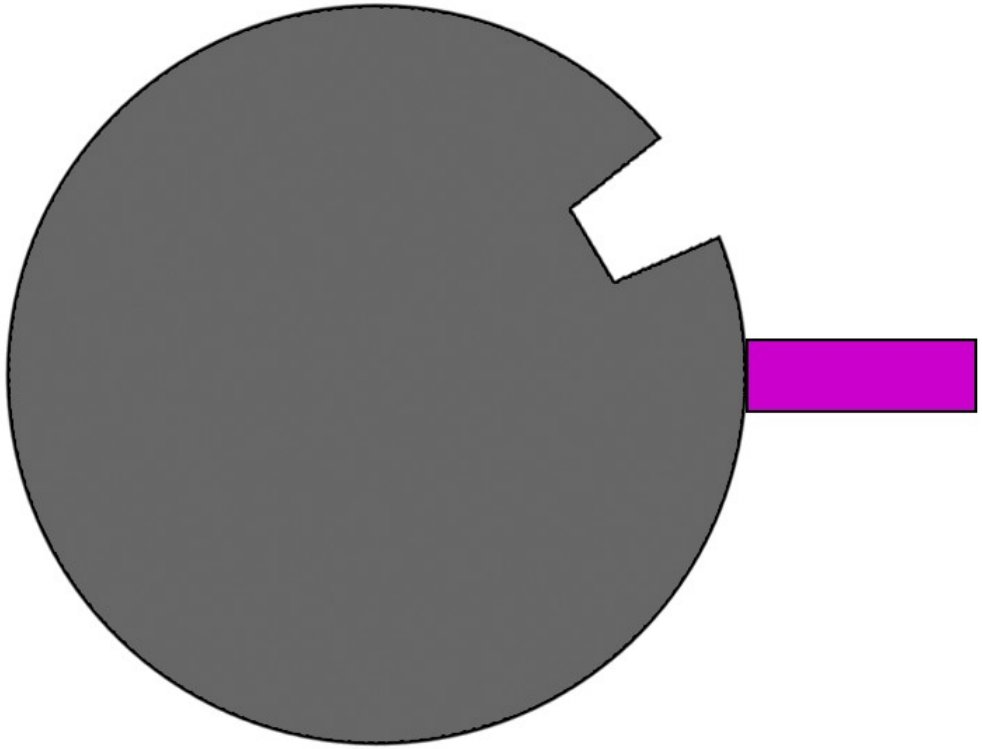

OPEN IN THIRTY SECONDS:
Cracking One of the Most Secure Locks in America
medeco
Marc Weber Tobias
Tobias Bluzmanis

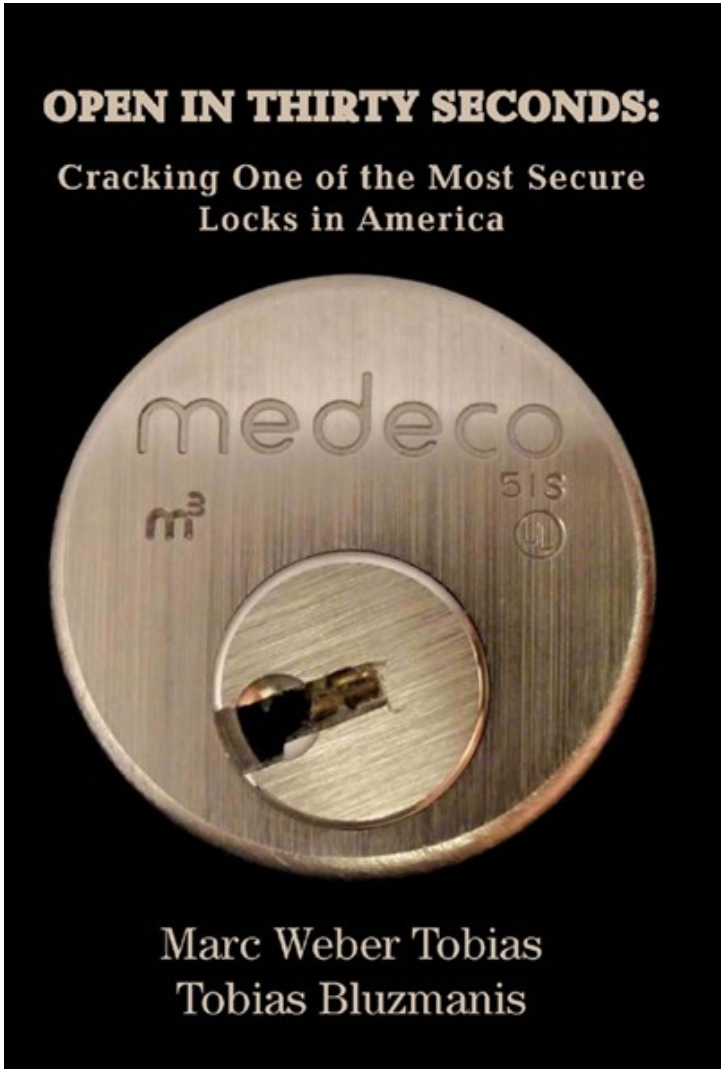
Medeco



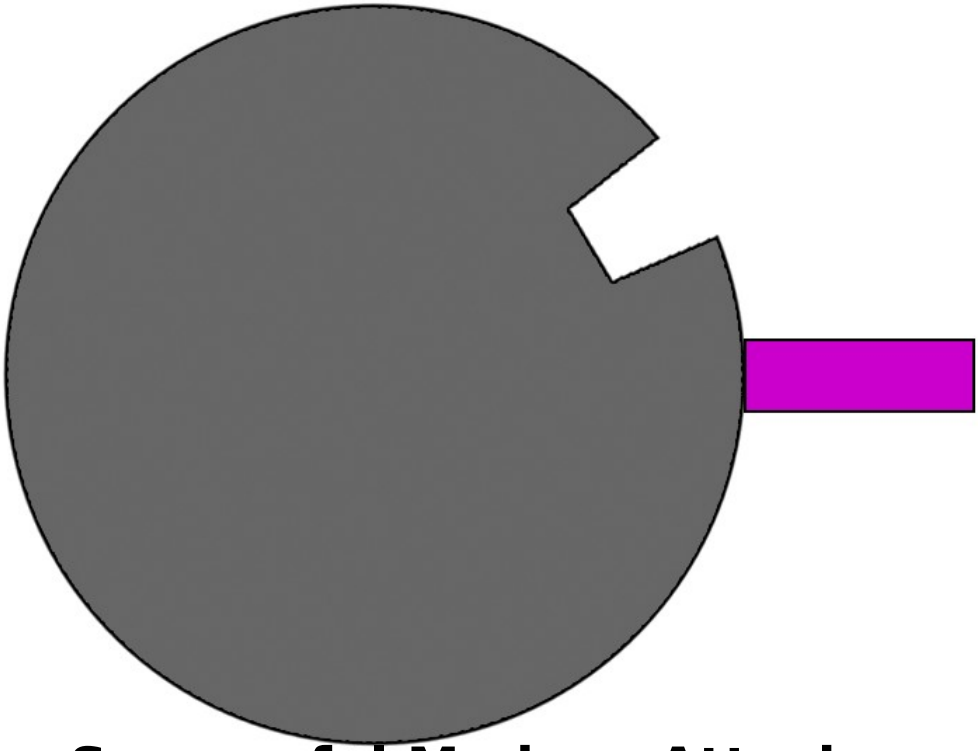

OPEN IN THIRTY SECONDS:
Cracking One of the Most Secure Locks in America
medeco
Marc Weber Tobias
Tobias Bluzmanis

Medeco



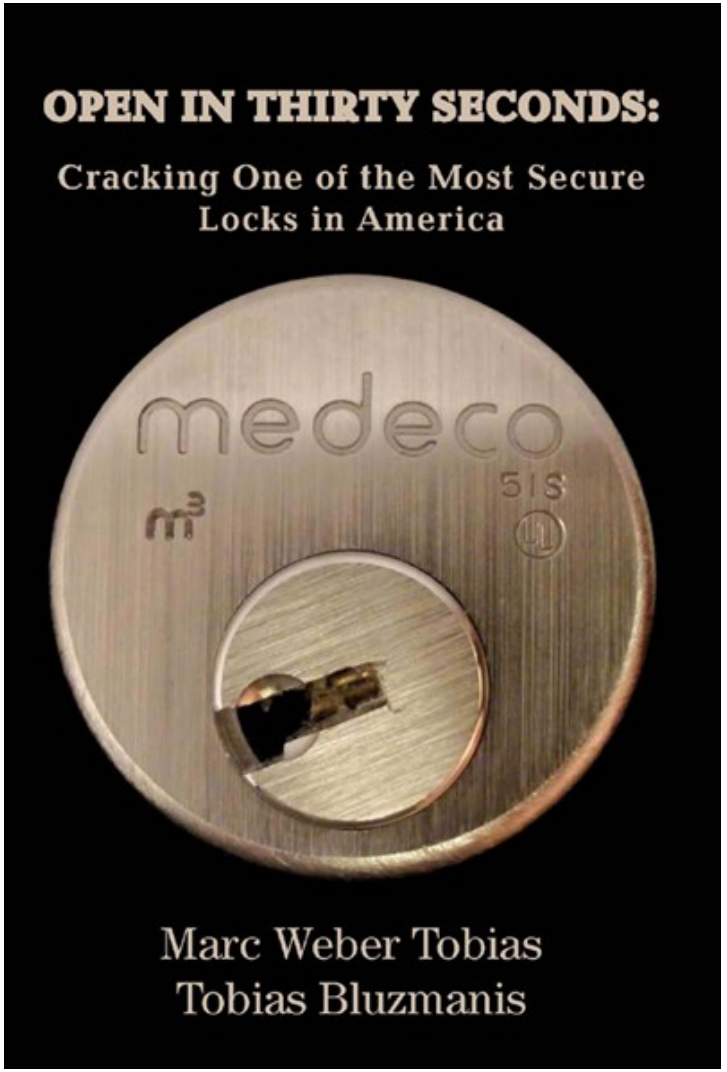

OPEN IN THIRTY SECONDS:
Cracking One of the Most Secure Locks in America
medeco
Marc Weber Tobias
Tobias Bluzmanis

Medeco

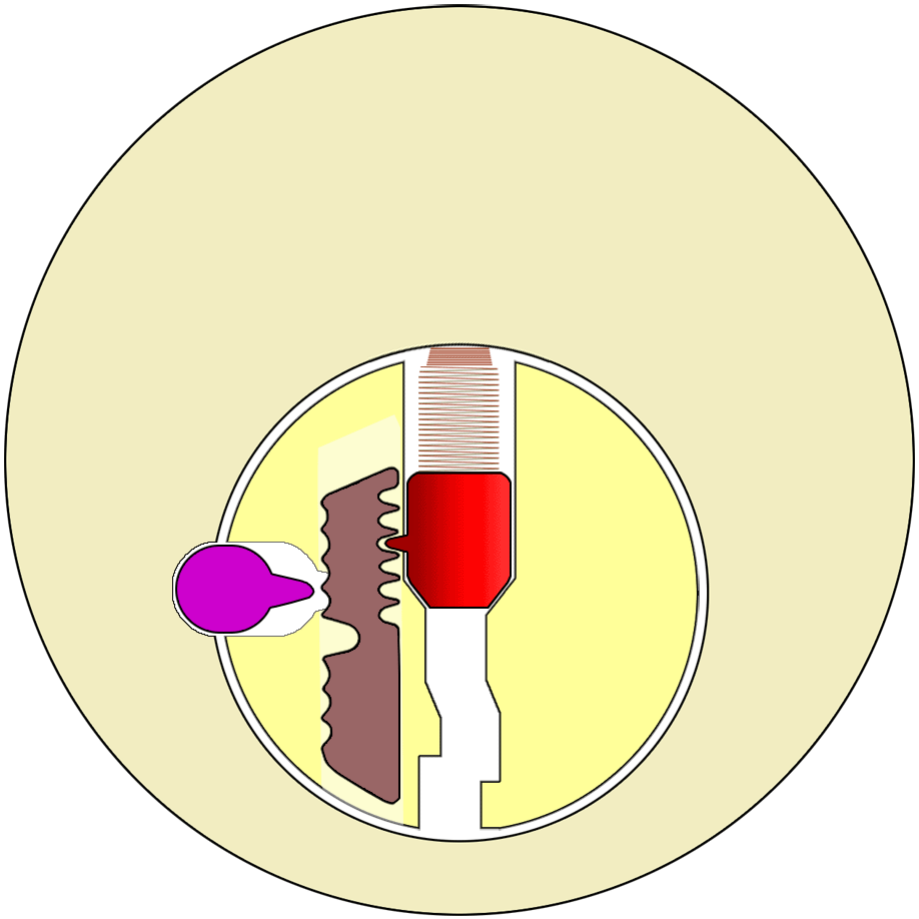


Successful Medeco Attacks

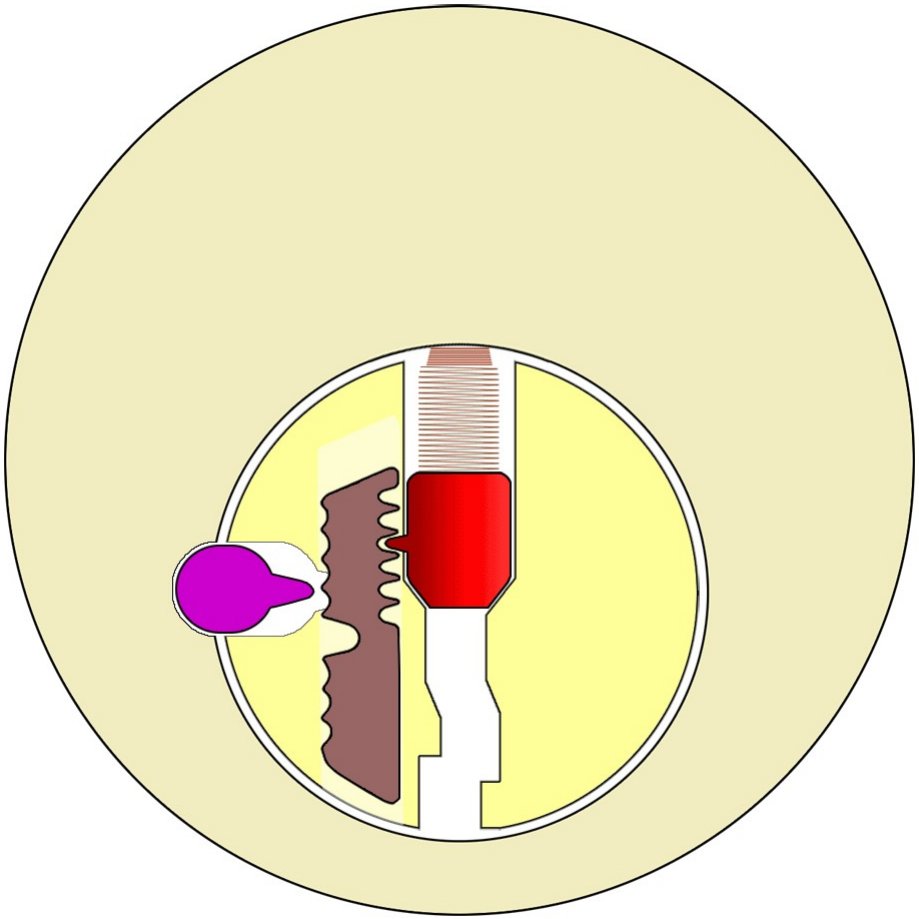
Marc Tobias
LockCon



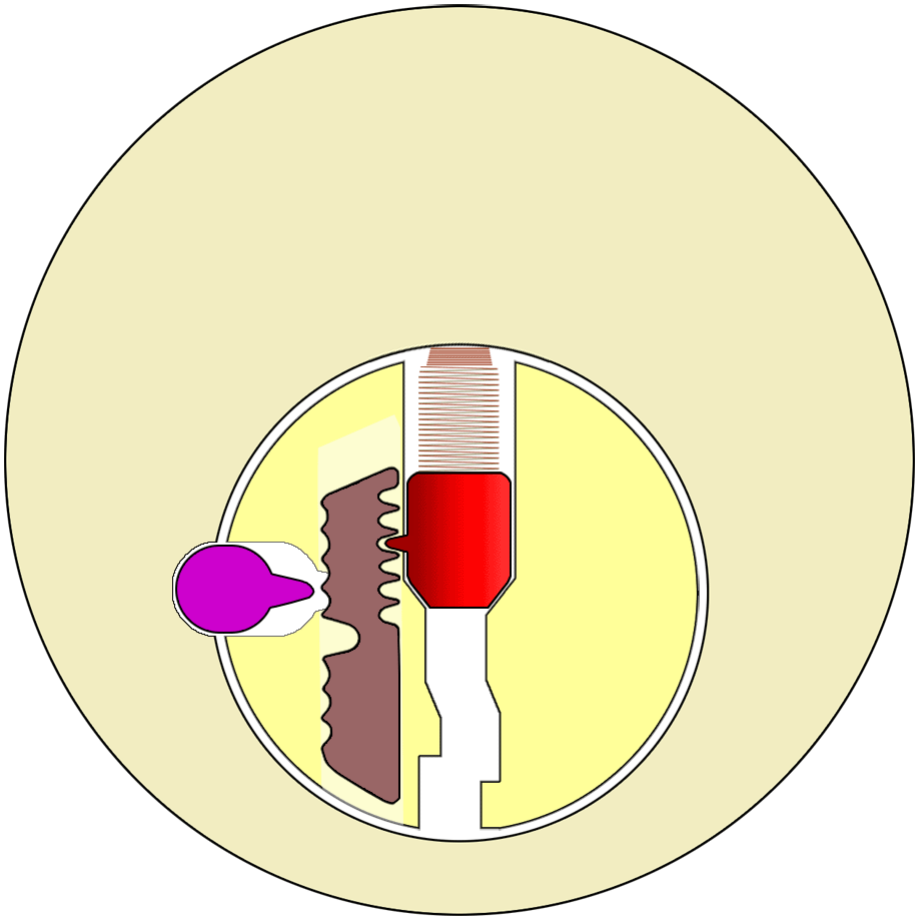
Kwikset Smart Series



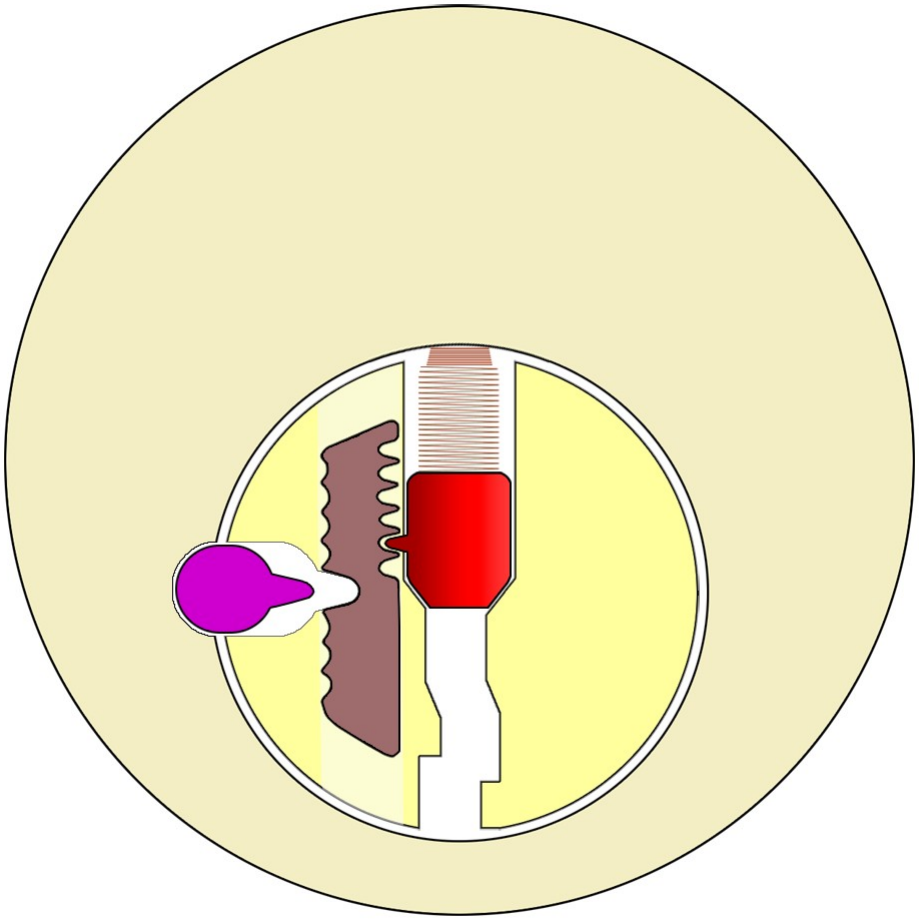
Kwikset Smart Series



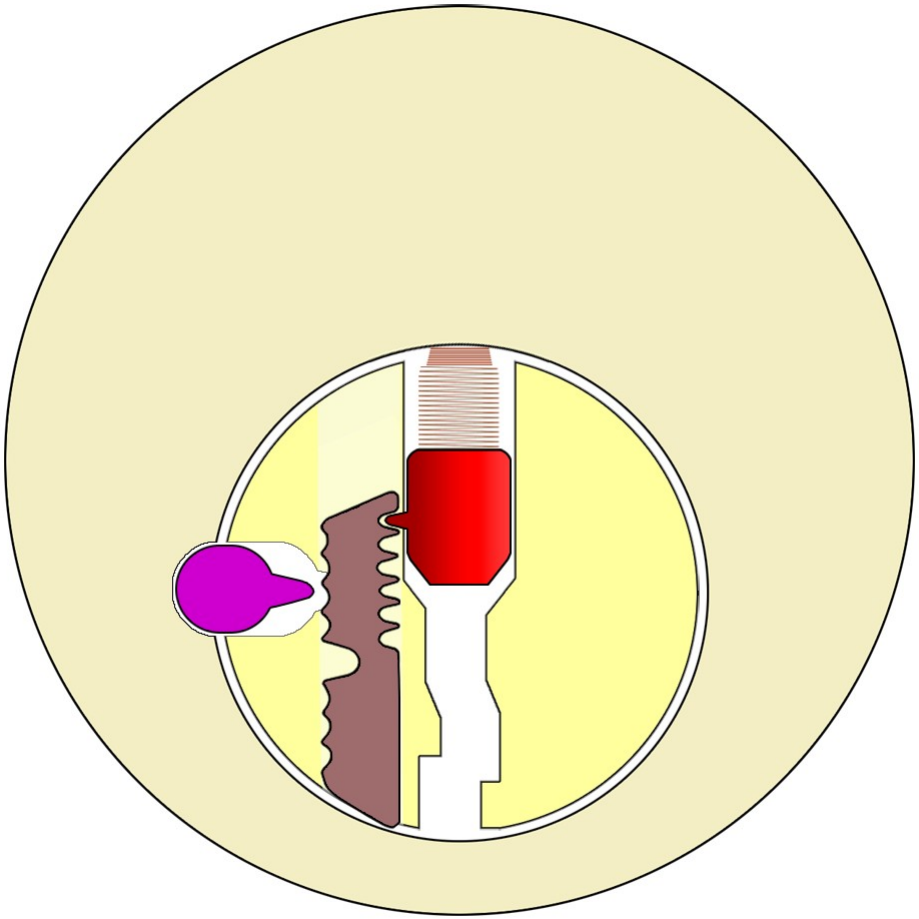
Kwikset Smart Series



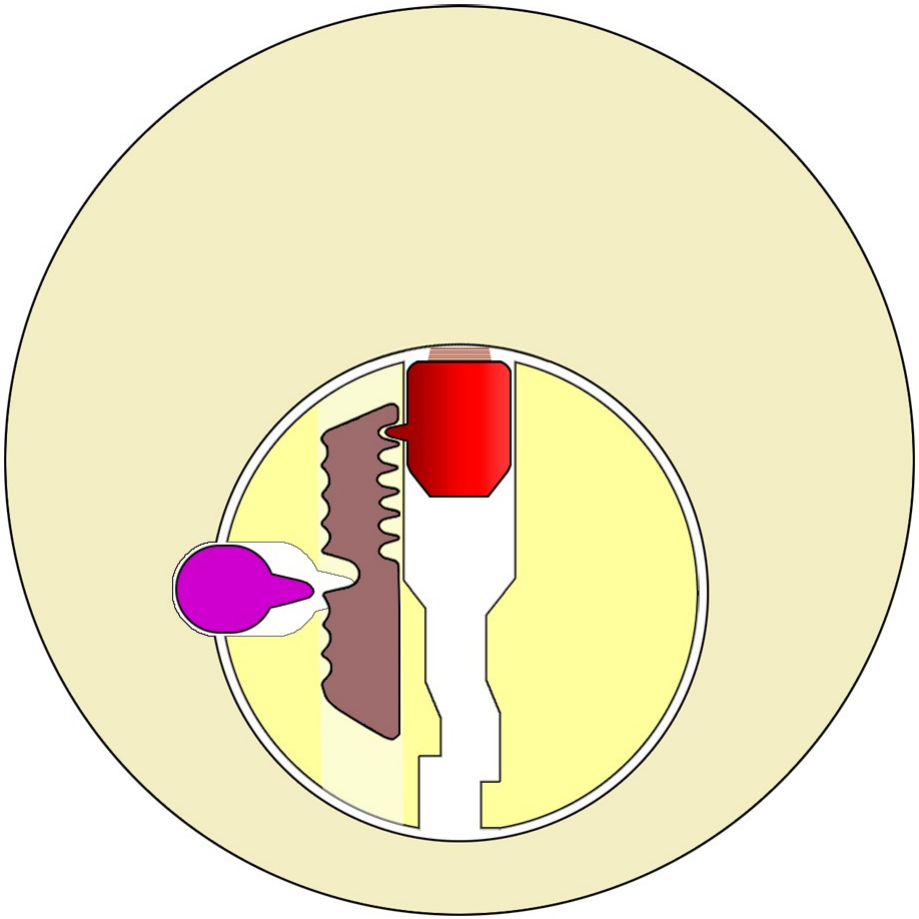
Kwikset Smart Series



Kwikset Smart Series



Kwikset Smart Series



Kwikset Smart Series

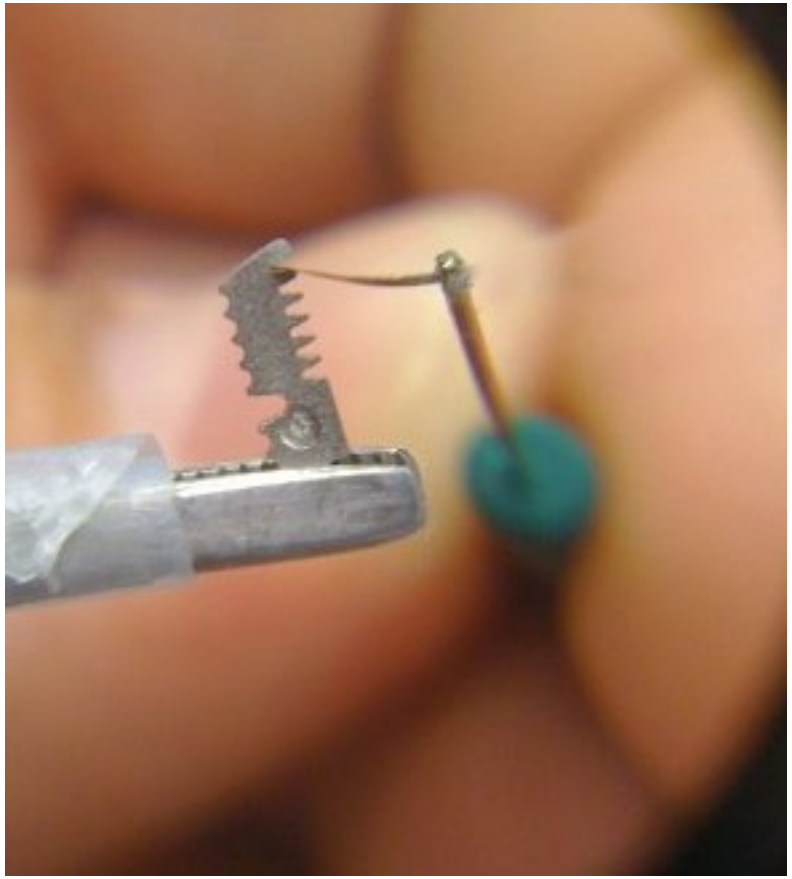
research and photo by Shane Lawson

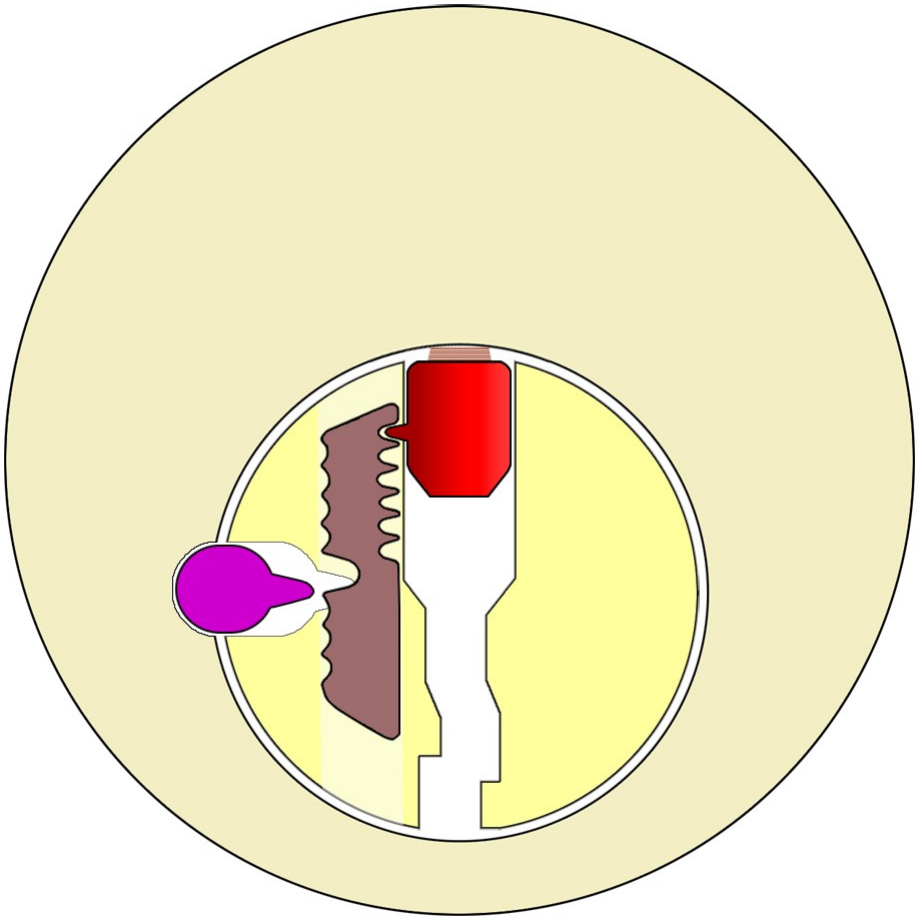
Kwikset Smart Series

research and photo by Shane Lawson

Kwikset Smart Series

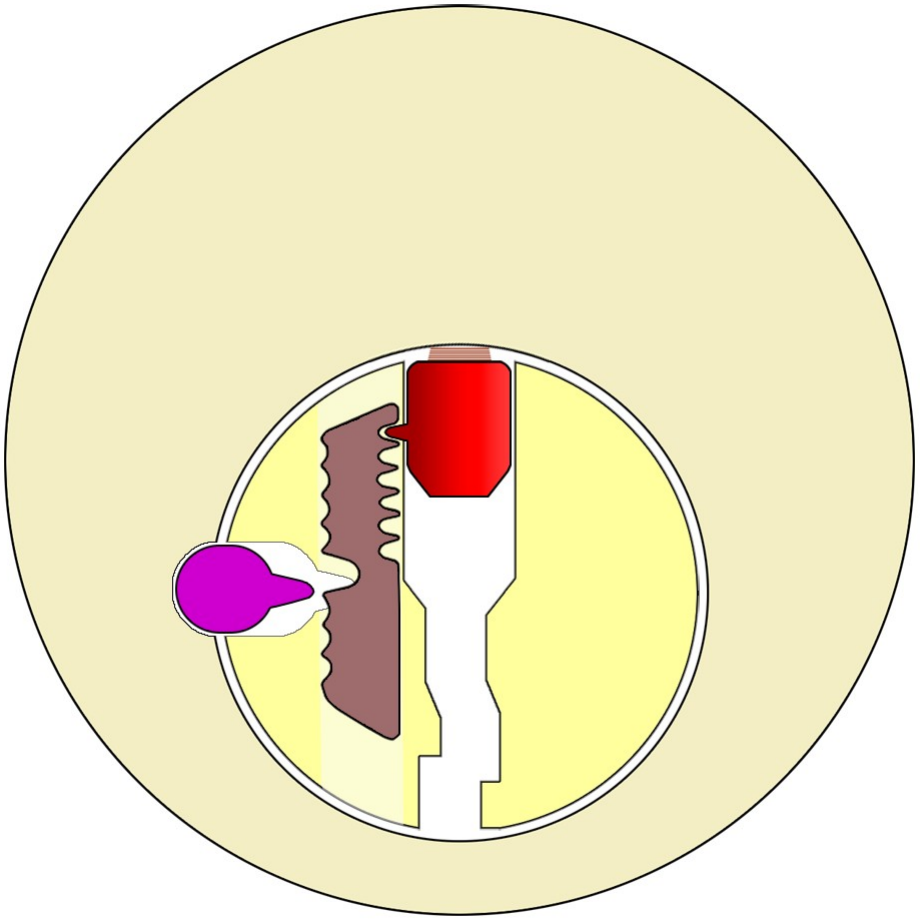
research and photo by Shane Lawson





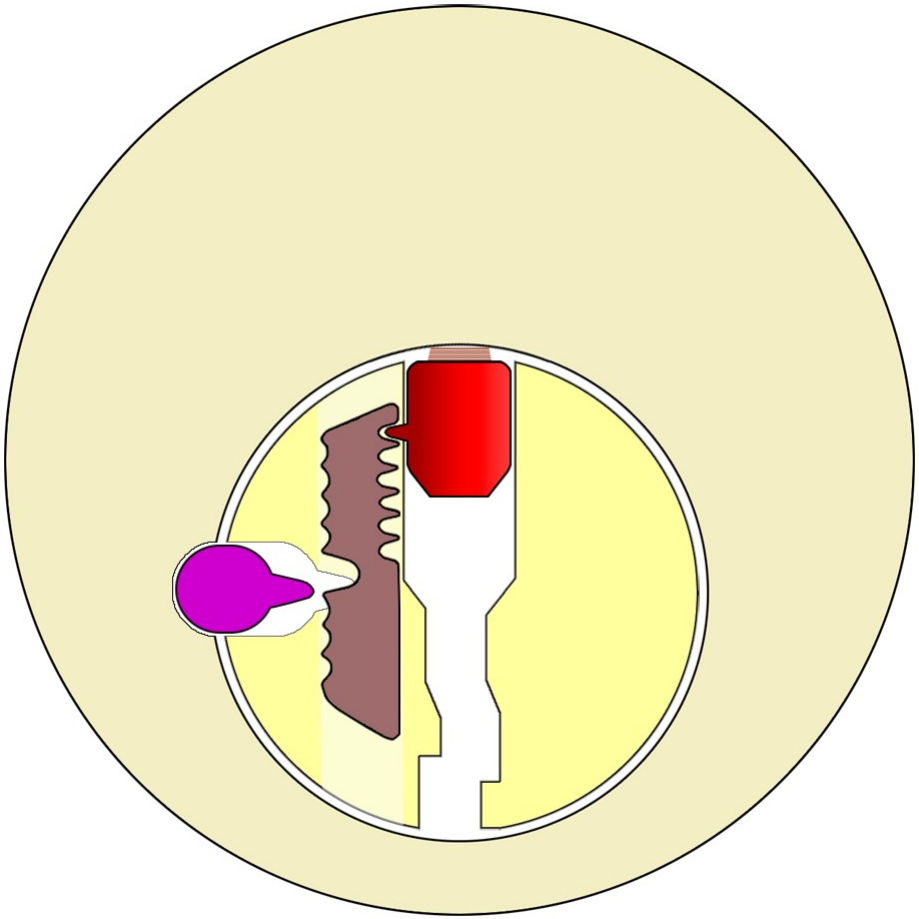
Kwikset Smart Series

research and photo by Shane Lawson



Kwikset Smart Series

research and photo by Shane Lawson



Informing Kwikset

Kwikset Smart Series

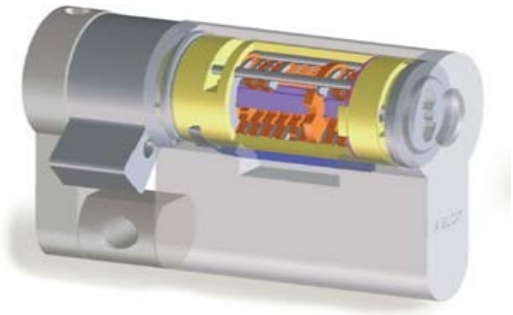
There's also this little problem…

Kwikset Smasher Tool

The Main Concept: Divide & Conquer...

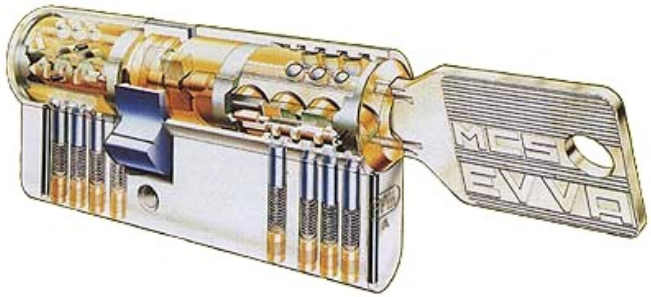
Isolate Discrete Components

No Known Attack or Bypass



ABLOY

Prote
c



EVVA

MCS

MT5+

MUL-T-LOCK

Thank you very much.

http://deviating.net

http://enterthecore.net http://toool.us